

Expansion of Hong Kong International Airport into a Three-Runway System

Construction Phase Monthly EM&A Report No. 94 (For October 2023)

November 2023

This Monthly EM&A Report No. 94 has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by:

Terence Kong

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date 14 November 2023



AECOM 12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, Hong Kong 香港新界沙田鄉事會路 138 號新城 市中央廣場第 2 座 12 樓

www.aecom.com

+852 3922 9000 tel +852 3922 9797 fax

Our Ref: 60440482/C/RMKY231114

By Email

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road Hong Kong International Airport Lantau, Hong Kong

Attn: Mr. Lawrence Tsui, Principal Manager, Environmental Compliance

14 November 2023

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 94 (October 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 94 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 November 2023.

We would like to inform you that we have no adverse comment and verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact the undersigned at 3922 9141.

Yours faithfully, AECOM Asia Co. Ltd.

Roy Man

Independent Environmental Checker

Contents

Abl	oreviat	tions		1
Exe	ecutive	e summa	ry	3
1	Intro	oduction		8
	1.1	Backgro	ound	8
	1.2	Scope of	of this Report	8
	1.3	Project	Organisation	8
	1.4	Summa	ary of Construction Works	12
	1.5	Summa	ary of EM&A Programme Requirements	12
2	Air (Quality M	Monitoring	16
	2.1	Action a	and Limit Levels	16
	2.2	Monitor	ing Equipment	16
	2.3		ing Methodology	16
		2.3.1	Measuring Procedure	16
		2.3.2	Maintenance and Calibration	17
	2.4	Summa	ary of Monitoring Results	17
	2.5	Conclus	sion	17
3	Nois	se Monito	oring	18
	3.1	Action a	and Limit Levels	18
	3.2	Monitor	ing Equipment	18
	3.3		ing Methodology	19
		3.3.1	Monitoring Procedure	19
		3.3.2	Maintenance and Calibration	19
	3.4	Summa	ary of Monitoring Results	19
	3.5	Conclus		20
4	Wat	er Qualit	ty Monitoring	21
	4.1	Action a	and Limit Levels	22
	4.2		ing Equipment	23
	4.3	Monitor	23	
		4.3.1	Measuring Procedure	23
		4.3.2	Maintenance and Calibration	23
		4.3.3	Laboratory Measurement / Analysis	24
	4.4	Summa	ary of Monitoring Results	24
	4.5	Conclus	,	25
5	Was	ste Mana	agement	26
	5.1		and Limit Levels	26

	5.2	Waste N	Management Status	26
	5.3	Marine S	Sediment Management	27
6	Chir	nese Whi	te Dolphin Monitoring	28
	6.1	Action a	and Limit Levels	28
	6.2	CWD M	onitoring Transects and Stations	28
		6.2.1	Small Vessel Line-transect Survey	28
		6.2.2	Land-based Theodolite Tracking Survey	30
	6.3	CWD M	onitoring Methodology	30
		6.3.1	Small Vessel Line-transect Survey	30
		6.3.2	Photo Identification	31
		6.3.3	Land-based Theodolite Tracking Survey	31
	6.4	Monitori	ng Results and Observations	32
		6.4.1	Small Vessel Line-transect Survey	32
		6.4.2	Photo Identification	34
		6.4.3	Land-based Theodolite Tracking Survey	34
	6.5	Progress	s Update on Passive Acoustic Monitoring	34
	6.6	Site Auc	dit for CWD-related Mitigation Measures	35
	6.7	Timing o	of reporting CWD Monitoring Results	35
	6.8	Summai	ry of CWD Monitoring	35
7	Env	ronment	al Site Inspection and Audit	36
	7.1	Environ	mental Site Inspection	36
	7.2	Landsca	ape and Visual Mitigation Measures	36
	7.3	Land Co	ontamination Assessment	42
	7.4	Audit of	SkyPier High Speed Ferries	42
	7.5	Audit of	Construction and Associated Vessels	44
	7.6	Impleme	entation of Dolphin Exclusion Zone	44
	7.7	Status o	of Submissions under Environmental Permits	44
	7.8	Complia	nce with Other Statutory Environmental Requirements	45
	7.9		s and Interpretation of Complaints, Notification of Summons and of Prosecutions	45
		7.9.1	Complaints	45
		7.9.2	Notifications of Summons or Status of Prosecution	45
		7.9.3	Cumulative Statistics	45
8	Futu	ıre Key Is	ssues and Other EIA & EM&A Issues	46
	8.1	Constru	ction Programme for the Coming Reporting Period	46
	8.2		rironmental Issues for the Coming Reporting Period	48
	8.3	-	ng Schedule for the Coming Reporting Period	48
	8.4		of the Key Assumptions Adopted in the EIA Report	49
9	Con	clusion a	and Recommendation	50

Tables

Table 1.1: Contact Information of Key Personnel	8
Table 1.2: Summary of Status of All Environmental Aspects under the Updated EM&A	
Manual	12
Table 2.1: Locations of Impact Air Quality Monitoring Stations	16
Table 2.2: Action and Limit Levels of Air Quality Monitoring	16
Table 2.3: Air Quality Monitoring Equipment	16
Table 2.4: Summary of Air Quality Monitoring Results	17
Table 3.1: Locations of Impact Noise Monitoring Stations	18
Table 3.2: Action and Limit Levels for Noise Monitoring	18
Table 3.3: Noise Monitoring Equipment	19
Table 3.4: Summary of Construction Noise Monitoring Results	20
Table 4.1: Monitoring Locations of Impact Water Quality Monitoring	21
Table 4.2: Action and Limit Levels for General Water Quality Monitoring	22
Table 4.3: The Control and Impact Stations during Flood Tide and Ebb Tide for General Water Quality Monitoring	22
Table 4.4: Water Quality Monitoring Equipment	23
Table 4.5: Other Monitoring Equipment	23
Table 4.6: Laboratory Measurement/ Analysis of SS	24
Table 4.7: Summary of SS Compliance Status (Mid-Ebb Tide)	24
Table 4.8: Summary of Findings from Investigation of SS Monitoring Result	25
Table 5.1: Action and Limit Levels for Construction Waste	26
Table 5.2: Construction Waste Statistics	26
Table 6.1: Derived Values of Action and Limit Levels for Chinese White Dolphin Monitoring	28
Table 6.2: Coordinates of Transect Lines in NEL, NWL, AW, WL and SWL Survey Areas	29
Table 6.3: Land-based Theodolite Survey Station Details	30
Table 6.4: Comparison of CWD Encounter Rates of the Whole Survey Area with Action	00
Levels	33
Table 6.5: Summary of Photo Identification	34
Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking	34
Table 7.1: Landscape and Visual – Construction Phase Audit Summary	37
Table 7.2: Examples of Landscape and Visual Mitigation Measures in the Reporting	
Periods	38
Table 7.3: Monitoring Programme for Landscape and Visual	39
Table 7.4: Event and Action Plan for Landscape and Visual	40
Table 7.5: Summary of the Number of Retained, Transplanted and To-be-transplanted	
Trees in the Reporting Period	40
Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period	41
Table 7.7: Summary of Key Audit Findings against the SkyPier Plan	43
Table 7.8: Status of Submissions under Environmental Permit	44

Figures

Figure 1.1	Locations of Key Construction Activities
Figure 2.1	Locations of Air and Noise Monitoring Stations and Chek Lap Kok Wind Station
Figure 4.1	Water Quality Monitoring Stations
Figure 6.1	Vessel based Dolphin Monitoring Transects in Construction, Post-construction and Operation Phases
Figure 6.2	Land based Dolphin Monitoring in Baseline and Construction Phases
Figure 6.3	Sightings Distribution of Chinese White Dolphins
Figure 6.4	Location for Autonomous Passive Acoustic Monitoring
Figure 7.1	Duration of the SkyPier HSFs travelling through the SCZ for October 2023

Appendices

Appendix A	Contract Description
Appendix B	Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase
Appendix C	Monitoring Schedule
Appendix D	Monitoring Results
Appendix E	Calibration Certificates
Appendix F	Status of Environmental Permits and Licences
Appendix G	Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecutions
Appendix H	Data of SkyPier HSF Movements to/from Macau (between 1 and 31 October 2023)

Abbreviations

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CTCC	Construction Traffic Control Centre
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DEZ	Dolphin Exclusion Zone
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring & Audit
EP	Environmental Permit
EPD	Environmental Protection Department
EPSS	Emergency Power Supply Systems
ET	Environmental Team
FCZ	Fish Culture Zone
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary
	Crossing Facilities
HKIA	Hong Kong International Airport
HOKLAS	Hong Kong Laboratory Accreditation Scheme
HSF	High Speed Ferry
HVS	High Volume Sampler
IEC	Independent Environmental Checker
LKC	Lung Kwu Chau
MMHK	Mott MacDonald Hong Kong Limited
MMWP	Marine Mammal Watching Plan
MSS	Maritime Surveillance System
MTRMP-CAV	Marine Travel Routes and Management Plan for
	Construction and Associated Vessel
NEL	Northeast Lantau
NWL	Northwest Lantau
PAM	Passive Acoustic Monitoring
PM	Project Manager
SC	Sha Chau
SCZ	Speed Control Zone
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park
SS	Suspended Solids
SSSI	Site of Special Scientific Interest
STG	Encounter Rate of Number of Dolphin Sightings

SWL	Southwest Lantau	
T2	Terminal 2	
The Project	The Expansion of Hong Kong International Airport into a	
	Three-Runway System	
The SkyPier Plan	Marine Travel Routes and Management Plan for High	
	Speed Ferries of SkyPier	
The Manual	The Updated EM&A Manual	
TSP	Total Suspended Particulates	
WL	West Lantau	
WMP	Waste Management Plan	

Executive summary

The "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) serves to meet the future air traffic demands at Hong Kong International Airport (HKIA). On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual).

This is the 94th Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 October 2023.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works, and 132kV cable laying works.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Manual of the Project. Summary of the monitoring activities during this reporting period is presented as below:

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	30
Noise monitoring	16
Water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	2

Environmental auditing works, including weekly site inspections of construction works conducted by the ET and bi-weekly site inspections conducted by the Independent Environmental Checker (IEC), audit of SkyPier High Speed Ferries (HSF), audit of construction and associated vessels, and audit of implementation of Dolphin Exclusion Zone (DEZ) Plan, were conducted in the reporting period. Based on the information including ET's observations, records of Maritime Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

With the completion of 3RS land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023. The impact water quality monitoring was terminated after 31 October 2023. A post-construction water quality monitoring exercise would be carried out for four weeks, in the same manner as the impact monitoring during construction phase. The tentative commencement

date of post-construction phase water quality monitoring will be scheduled on 14 November 2023. The post-construction phase water monitoring schedule is provided in **Appendix C**. The construction phase CWD monitoring will be continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis.

Snapshots of EM&A Activities in the Reporting Period



Land-based Theodolite Tracking Survey for CWD at Sha Chau



Automatic Wheel Washing Facilities maintained by Contractor



Air Impact Monitoring conducted by ET at Tin Sum Village House

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

Monitoring results of construction dust, construction noise, construction waste and CWD did not trigger the corresponding Action and Limit Levels in the reporting period.

The water quality monitoring results for all parameters, except suspended solids (SS), obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS, one of the testing results triggered the relevant Action Level, and corresponding investigation was conducted accordingly. The investigation finding revealed that the case was not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

Contract 3206 Main Reclamation Works

- Filling materials delivery; and
- Backfilling works.

Airfield Works

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works; and
- Utilities and backfilling works.

Contract 3305 Airfield Ground Lighting System

- Enhanced vehicular warning light hardware installation;
- Power supply system installation; and
- Cable containment installation.

Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- · Equipment installation; and
- Structured cabling.

Contract 3308 Foreign Object Debris Detection System

- Construction of foundation; and
- Tower modification works.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;
- Rock armour laying works;
- Pavement works for runway;
- Construction of stormwater drainage;
- Construction of vehicular tunnel;
- Aviation fuel pipe works;
- Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Electrical and mechanical works; and
- Demolition of antenna tower.

Contract 3404 Integrated Airport Control System

System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Structure works;
- Marine sediment treatment works; and
- Tunnel concreting and backfilling works.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and architectural, builder's work and finishing works;
- Fuel pipe installation works;
- Utilities works;
- Marine sediment treatment works;
- Erection works for concrete batching plant;
- Excavation and reinforced concrete works; and
- Cable Laying Works

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Pier construction;
- Drainage construction;
- Construction of beams and columns;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

Automated People Mover (APM) and Baggage Handling System (BHS):

Contract 3601 New Automated People Mover System (TRC Line)

Guide beam installation.

Contract 3602 Existing APM System Modification Works

Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Steel work installation.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Road reinstatement works;
- Erection of formworks; and
- Casted walkway structure.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction and superstructure works; and
- APM and BHS Tunnel construction-

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Bored pile works;
- Raft foundation, footing and superstructure works;
- Tower crane footing and erection works; and
- Pile cap construction works and precast erection works.

Contract 3805 New Airport District Police Operational Base

Bored pile works.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

Contract 3913 Asphalt Batching Plant

Operation of asphalt batching plant.

Utilities:

132kV Cable

- Cable trenching and cable layering;
- Duct installation and cable duct mandrill test;
- Backfilling; and
- Draw pit opening.

Summary Table

The following table summarises the key findings of the EM&A programme during the reporting period:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		V	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		V	No breach of Action Level was recorded.	Nil
Complaint Received	1		A complaint regarding dust nuisance at 3RS reclaimed area was received on 4 October 2023.	ET requested the relevant contractors to provide information regarding the complaint. During the ET's site inspection, water spraying was provided on the related haul road, yet part of the road was observed dry with fugitive dust. The concerned contractor updated their dust suppression plan and an additional water truck was provided plus two sets of water sprinkler systems were installed as mitigation enhancements. Hence, the case was considered closed.
			A complaint regarding dust nuisance at Northeast Quay was received on 9 October 2023.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
			A complaint regarding noise and dust nuisance at Sky Plaza Road was received on 16 October 2023.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
			A complaint regarding sand and gravel at South Perimeter Road was received on 20 October 2023.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
			A complaint regarding dust nuisance from sand barge near Castle Peak Bay was received on 30 October 2023.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
Notification of any summons and status of prosecutions		√	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A		V	There was no change to the construction works that may affect the EM&A.	Nil

Note

[^] Only triggering of Action or Limit Level found related to Project works is counted as Breach of Action or Limit Level.

1 Introduction

1.1 Background

On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1¹. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

The Project covers the expansion of the existing airport into a three-runway system (3RS) with key project components comprising land formation of about 650 ha and all associated facilities and infrastructure including taxiways, aprons, aircraft stands, a passenger concourse, an expanded Terminal 2, all related airside and landside works and associated ancillary and supporting facilities. The submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

Construction of the Project is to proceed in the general order of diversion of the submarine aviation fuel pipelines, diversion of the submarine power cables, land formation, and construction of infrastructure, followed by construction of superstructures.

The summary of construction works programme can be referred to **Section 1.4**. Description of relevant contracts was presented in **Appendix A**.

1.2 Scope of this Report

This is the 94th Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 31 October 2023.

1.3 Project Organisation

The Project's organisation structure presented in Appendix B of the Construction Phase Monthly EM&A Report No.1 remained unchanged during the reporting period. Contact details of the key personnel are presented in **Table 1.1**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET)	Environmental Team Leader	Terence Kong	2828 5919
(Mott MacDonald Hong Kong Limited)	Deputy Environmental	Heidi Yu	2828 5704
Rong Emiliou)	Team Leaders	Ken Wong	2828 5817

¹ The Manual is available on the Project's dedicated website (accessible at: http://env.threerunwaysystem.com/en/index.html).

Party	Position	Name	Telephone
Independent Environmental Checker (IEC)	Independent Environmental Checker	Roy Man	3922 9141
(AECOM Asia Company Limited)	Deputy Independent Environmental Checker	Jackel Law	3922 9376
Reclamation Works:			
Party	Position	Name	Telephone
Contract 3206	Project Manager	Alan Mong	3763 1352
Main Reclamation Works (ZHEC-CCC-CDC Joint Venture)	Environmental Officer	Zhang Bin Wang	3763 1525
airfield Works:			
Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel Advance Works	Project Manager	Dickey Yau	5699 4503
(China Road and Bridge Corporation)	Environmental Officer	Dennis Ho	5645 0563
Contract 3305 Airfield Ground Lighting System	Project Manager	Allam Al-Turk	2944 9725
(ADB Safegate Hong Kong Limited)	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility	Project Director	Dennis Yam	9551 9920
Control System Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility	Project Manager	Ken Tang	9640 5397
(Paul Y. Construction Company Limited)	Environmental Officer	Ferddy Leung	5585 6746
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
Contract 3310 North Runway	Project Manager	Kingsley Chiang	9424 8437
Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	9842 2703
hird Runway Concours	se:		
Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres	Project Manager	Wyman Lau	6112 9753
Enabling Works (Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550

Party	Position	Name	Telephone
Contract 3403 New Integrated Airport Centres	Project Manager	Alice Leung	9220 3162
Building and Civil Works (Sun Fook Kong Construction Limited)	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System	Project Manager	Andy Ng	9102 2739
(Shun Hing Systems Integration Co., Ltd.)	Safety and Environmental Manager	Josephine Chang	9383 7705
Contract 3405 Third Runway Concourse Foundation and Substructure Works	Project Manager	Francis Choi	9423 3469
(China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban Construction	Senior HSE Manager	Qian Zhang	5377 7976
Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

Party	Position	Name	Telephone
Contract 3508 Terminal 2 Expansion Works	Project Director	Richard Ellis	6201 5637
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Endy Tse	6228 7768

Automated People Mover (APM) and Baggage Handling System (BHS):

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover	Project Manager	Hongdan Wei	158 6180 9450
System (TRC Line)			
(CRRC Puzhen Bombardier Transportation Systems	Francisco estad Office e	II V V	0405 0400
Limited and CRRC Nanjing	Environmental Officer	H Y Yue	9185 8186
Puzhen Co., Ltd. Joint Venture)			
Contract 3602 Existing APM	Project Manager	Xia Bo	6586 4950
System Modification Works		Ald BU	0300 4930
(Niigata Transys Co., Ltd.)	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage	Project Manager	K C Ho	9272 9626
Handling System (VISH Consortium)	Environmental Officer	Richard Ng	9802 9577

Construction Support (Facilities):

Party	Position	Name	Telephone
Contract 3721 Construction	Senior Project Manager	Thomas Lui	9011 5340
Support Infrastructure Works (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	John Mak	6273 8703
Contract 3728 Minor Site Works	Contract Manager	C K Liu	9194 8739
(Shun Yuen Construction Company Limited)	Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Repair Service	Project Manager	Michael Kan	9206 0550
(Wing Hing Construction Co., Ltd.)	Safety Health Environmental Manager	Mike Leung	6625 2550

Airport Support Infrastructure:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing	Project Manager	Kingsley Chiang	9424 8437
Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works	Project Director	John Adams	6111 6989
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Ruby Hui	6218 6408
Contract 3804 East and Landside Fire Stations (Beijing Urban	Project Manager	Mr. Zhang Xianda	4661 6818
Construction Group Company Limited - Beijing Urban Construction International Company Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture)	Environmental Officer	Ms. Kimberly Wong	5542 1669
Contract 3805 New Airport District Police	Project Manager	Cheuk Wing Wai	9339 8321
Operational Base (Chinney Construction Co., Ltd.)	Environmental Officer	Mike Li	6306 8547

Construction Support (Services / Licences):

Party	Position	Name	Telephone
Contract 3901A Concrete Batching Facility	Project Manager	Benedict Wong	9553 2806
(K. Wah Concrete Company Limited)	Environmental Officer	C P Fung	9874 2872

Party	Position	Name	Telephone
Contract 3901B Concrete Batching Facility	General Manager	Gabriel Chan	2435 3260
(Gammon Construction Limited)	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services (Gitanes – Crown Asia Joint Venture)	Project Manager	Mr. lan Li	9750 6438
	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt	Project Manager	Xie Yi Sheng	6580 6005
Batching Plant (SPR Joint Venture)	Environmental Officer	Kenneth Chan	9300 2182

Utilities:

Party	Position	Name	Telephone
132 kV Cable (CLP Power Hong Kong	Engineer	Ken Fung	6391 9087
Limited / Kum Shing (K.F.) Construction Company Limited)	Project Engineer	Ivan Shek	9822 5836

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works, and 132kV cable laying.

The locations of key construction activities are presented in Figure 1.1.

1.5 Summary of EM&A Programme Requirements

The status for all environmental aspects are presented in **Table 1.2**. The EM&A requirements remained unchanged during the reporting period.

Table 1.2: Summary of Status of All Environmental Aspects under the Updated EM&A Manual

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	At least 3 times every 6 days	On-going
Noise		
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.

Parameters	EM&A Requirements	Status
Impact Monitoring	Weekly	On-going
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine works.	The baseline water quality monitoring result was reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	The impact water quality monitoring was terminated after 31 October 2023 with EPD approval granted. The post-construction water quality monitoring exercise will be undertaken in November 2023. General impact water quality monitoring for water jetting works was completed on 23 May 2017.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine- based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022 and would be resumed if there are marine-based DCM works in the coming future.
Sewerage and Sewage Tro	eatment	
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	Methodology to be prepared and submitted to EPD one year before the scheduled commencement of operation of the proposed third runway	The proposed methodology of the annual sewage flow monitoring was approved by EPD. The annual flow monitoring was started from June 2021 and completed in 2022.
Details of the routine H ₂ S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The H₂S monitoring proposal was accepted by EPD in Jun 2023.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egretry Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.

Parameters	EM&A Requirements	Status
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed.
Post-Translocation Coral Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)	
	6 months of baseline surveys before the commencement of land formation related construction works.	
Baseline Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going The construction phase CWD monitoring will be continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis.
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Establishment Works Monitoring	Bi-monthly	On-going
Long Term Management (10 years) Monitoring	Annually	On-going
Environmental Auditing		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	No Marine Mammal Watching Plan (MMWP) implementation measures during this reporting period.
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going

Parameters	EM&A Requirements	Status
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels Implementation measures	Monitor and check	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	On-going
Spill Response Plan implementation measures	Monitor and check	On-going
Complaint Hotline and Email channel	Construction phase	On-going
Environmental Log Book	Construction phase	On-going

Taking into account the construction works in this reporting period, impact monitoring of air quality, noise, water quality, waste management, landscape & visual, and CWD were carried out in the reporting period.

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. To promote the environmental awareness and enhance the environmental performance of the contractors, regular environmental management meetings were conducted during the reporting period, which are summarised as below:

• Seventeen environmental management meetings for EM&A review with works contracts: 4, 5, 12, 13, 17, 18, 19, 20, 24, 26, 27 & 30 October 2023.

The EM&A programme has been following the recommendations presented in the approved EIA Report and the Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

2 Air Quality Monitoring

Air quality monitoring of 1-hour Total Suspended Particulates (TSP) was conducted three times every six days at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 2.1: Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location
AR1A	Man Tung Road Park
AR2	Village House at Tin Sum

2.1 Action and Limit Levels

In accordance with the Manual, baseline air quality monitoring of 1-hour TSP levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the air quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.2**.

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level (mg/m³)	Limit Level (mg/m³)
AR1A	306	500
AR2	298	

2.2 Monitoring Equipment

Portable direct reading dust meter was used to carry out the air quality monitoring. Details of equipment used in the reporting period are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-2 (Serial No. 296098)	18 Sep 2023	Appendix E

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

The measurement procedures involved in the impact air quality monitoring can be summarised as follows:

- a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2m above the ground.
- b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.
- c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.

d. When the measurement completed, the "Count" reading per hour was recorded for result calculation.

2.3.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration record of the HVS provided in Appendix D of the Monthly EM&A Report No. 77 and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

2.4 Summary of Monitoring Results

The air quality monitoring schedule of the reporting period is provided in **Appendix C**.

The air quality monitoring results in the reporting period are summarised in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix D**.

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (mg/m³)	Action Level (mg/m³)	Limit Level (mg/m³)
AR1A	36 - 101	306	500
AR2	54 - 108	298	

The monitoring results were within the corresponding Action and Limit Levels at all monitoring stations in the reporting period.

General meteorological conditions throughout the impact monitoring period were recorded. Wind data including wind speed and wind direction for each monitoring day were collected from the Chek Lap Kok Wind Station.

2.5 Conclusion

No dust emission source was observed at the monitoring stations during the monitoring sessions. As the sensitive receivers were far away from the construction activities, with the implementation of dust control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

3 Noise Monitoring

Noise monitoring in the form of 30-minute measurements of L_{eq} , L_{10} , and L_{90} levels was conducted once per week between 0700 and 1900 on normal weekdays at four representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 3.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 3.1: Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2 ⁽¹⁾	Tung Chung West Development	To be determined
NM3A ⁽²⁾	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Notes:

- (1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.
- (2) According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 September 2018 and would be resumed with the completion of the Tung Chung East Development.

3.1 Action and Limit Levels

In accordance with the Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the noise monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 3.2**.

Table 3.2: Action and Limit Levels for Noise Monitoring

Monitoring Stations	Time Period	Action Level	Limit Level, Leq(30mins) dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75dB(A) ⁽¹⁾

Note:

(1) The Limit Level for NM4 is reduced to 70dB(A) for being an educational institution. During school examination period, the Limit Level is further reduced to 65dB(A).

3.2 Monitoring Equipment

Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was used to check the sound level meters by a known sound pressure level for field measurement. Details of equipment used in the reporting period are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87
Acoustic Calibrator	Casella CEL-120 (Serial No. 2383737)	18 Jun 2023	Appendix D of Monthly EM&A Report No.91

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

The monitoring procedures involved in the noise monitoring can be summarised as follows:

- a. The sound level meter was set on a tripod at least a height of 1.2m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3dB(A) was applied to the free field measurements.
- b. Façade measurements were made at the monitoring station NM3A.
- c. Parameters such as frequency weighting, time weighting and measurement time were set.
- d. Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- e. During the monitoring period, L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
- f. Noise measurement results, when higher than the baseline monitoring levels, were corrected with reference to the baseline monitoring levels.
- g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

- a. The microphone head of the sound level meter was cleaned with soft cloth at regular intervals
- b. The meter and calibrator were sent to the supplier or laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring listed in **Table 3.3** are valid in the reporting period.

3.4 Summary of Monitoring Results

The noise monitoring schedule of reporting period is provided in **Appendix C**.

The noise monitoring results in the reporting period are summarised in **Table 3.4**. Detailed impact monitoring results are presented in **Appendix D**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) Leq (30mins)	Limit Level, dB(A) Leq (30mins)
NM1A ⁽¹⁾	64 - 67	75
NM4 ^{(1) (3)}	62 - 65	70 ⁽²⁾
NM5 ^{(1) (3)}	55 - 64	75
NM6 ^{(1) (3)}	62 - 66	75

Notes:

- (1) +3dB(A) Façade correction included;
- (2) The limit level will be reduced to 65dB(A) during school examination periods at NM4. School examination took place from 20 to 27 October 2023 during this reporting period.
- (3) Some of the noise measurement results were higher than the baseline monitoring levels. In order to reduce the influence of non-Project related noise on the monitoring results, these measurement results were corrected with reference to the baseline monitoring results.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were within the corresponding Limit Levels at all monitoring stations in the reporting period.

3.5 Conclusion

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were traffic noise near NM1A, school activities near NM4 and aircraft noise near NM6 during this reporting period. It is considered that the monitoring work during the reporting period was effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, pH, temperature, salinity, turbidity, and suspended solids (SS) was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 14 water quality monitoring stations, comprising 6 impact (IM) stations, 5 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations). **Table 4.1** describes the details of the monitoring stations. **Figure 4.1** shows the locations of the monitoring stations.

With the completion of land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023. The water quality impact monitoring was terminated after 31 October 2023. A post-construction water quality monitoring exercise would be carried out for four weeks, in the same manner as the impact monitoring during construction phase. The tentative commencement date of post-construction phase water quality monitoring will be scheduled on 14 November 2023. The post-construction phase water monitoring schedule is provided in **Appendix C**.

Table 4.1: Monitoring Locations of Impact Water Quality Monitoring

	Coordinates		Parameters	
	Easting	Northing		
Control Station	804247	815620	General Parameters	
Control Station	806945	825682	DO, pH,	
Control Station	817803	822109	Temperature, Salinity, Turbidity, SS	
Impact Station	806458	818351		
Impact Station	806236	819183	•	
Impact Station	806835	821349	•	
Impact Station	809838	822240	•	
Impact Station	810545	821501	•	
Impact Station	811519	821162	•	
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature,	
Sha Lo Wan	807810	817189	Salinity, Turbidity, SS	
Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	•	
	Control Station Control Station Impact Station Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling Planned marine park / hard corals at The Brothers / Tai Mo To Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau Sha Lo Wan Seawater Intake for cooling at Hong	Control Station 804247 Control Station 806945 Control Station 817803 Impact Station 806458 Impact Station 806236 Impact Station 806835 Impact Station 809838 Impact Station 810545 Impact Station 810545 Impact Station 811519 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling Planned marine park / hard corals at The Brothers / Tai Mo To Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau Sha Lo Wan 807810 Seawater Intake for cooling at Hong 811623	Control Station 804247 815620 Control Station 806945 825682 Control Station 817803 822109 Impact Station 806458 818351 Impact Station 806236 819183 Impact Station 806835 821349 Impact Station 809838 822240 Impact Station 810545 821501 Impact Station 811519 821162 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling 812660 819977 Planned marine park / hard corals at The Brothers / Tai Mo To 814166 821463 Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau 807571 822147 Sha Lo Wan 807810 817189 Seawater Intake for cooling at Hong 811623 820390	

Notes:

⁽¹⁾ With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.

- (2) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.
- (3) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.
- (4) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations. For IM2, there was minor adjustment of the monitoring location.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 4.2**. The control and impact stations during ebb tide and flood tide for general water quality monitoring are presented in **Table 4.3**.

Table 4.2: Action and Limit Levels for General Water Quality Monitoring

arameters Action Level (AL)		Limit Level (LL)		
it Levels for general A & SR8)	water quality m	onitoring		
General DO in mg/l Vater Quality (Surface, Middle & Monitoring Bottom)		liddle	Surface and I 4.1mg/l	Middle
Bottom)	Bottom		Bottom	
	3.4mg/l		2.7mg/l	
Suspended Solids (SS) in mg/l	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control
Turbidity in NTU	22.6		36.1	station at the same tide of the same day, whichever is higher
it Levels SR1A				
	33		42	
it Levels SR8				
	52		60	
	A & SR8) DO in mg/l (Surface, Middle & Bottom) Suspended Solids (SS) in mg/l Turbidity in NTU	it Levels for general water quality made A & SR8) DO in mg/l Surface and Made A & Smg/l Bottom) Suspended Solids (SS) in mg/l Turbidity in NTU 22.6 it Levels SR1A 33 it Levels SR8	it Levels for general water quality monitoring A & SR8) DO in mg/l (Surface, Middle & 4.5mg/l Bottom) Suspended Solids (SS) in mg/l Turbidity in NTU 22.6 Turbidity in NTU 22.6 it Levels SR1A Surface and Middle 4.5mg/l upstream control station at the same tide of the same day, whichever is higher	it Levels for general water quality monitoring A & SR8) DO in mg/l (Surface, Middle & Bottom) Bottom 3.4mg/l Suspended Solids (SS) in mg/l Turbidity in NTU 22.6 Turbidity in NTU 33 42 It Levels SR8

Notes:

- (1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (2) For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.
- (3) Depth-averaged results are used unless specified otherwise.

Table 4.3: The Control and Impact Stations during Flood Tide and Ebb Tide for General Water Quality Monitoring

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM7, SR3
SR2 ⁽¹⁾	IM7, IM10, IM11, IM12, SR1A, SR3, SR4A, SR8
Ebb Tide	
C1	SR4A
C2	IM1, IM2, IM7, IM10, IM11, IM12, SR1A, SR2, SR3, SR8

Note:

(1) As per findings of Baseline Water Quality Monitoring Report, the control reference has been changed from C3 to SR2 from 1 September 2016 onwards.

4.2 Monitoring Equipment

Table 4.4 summarises the equipment used in the reporting period for monitoring of specific water quality parameters under the water quality monitoring programme.

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 16H104233)	15 Sep 2023	Appendix D of Monthly EM&A Report No. 93
	YSI ProDSS (Serial No. 21K101468)	15 Sep 2023	Appendix D of Monthly EM&A Report No. 93

Other equipment used as part of the impact water quality monitoring programme are listed in **Table 4.5**.

Table 4.5: Other Monitoring Equipment

Equipment	Brand and Model
Water Sampler	Van Dorn Water Sampler
Positioning Device (measurement of GPS)	Garmin eTrex Vista HCx
Current Meter (measurement of current speed and direction, and water depth)	Sontek HydroSurveyor

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

Water quality monitoring samples were taken at three depths (at 1m below surface, at mid-depth, and at 1m above bottom) for locations with water depth >6m. For locations with water depth between 3m and 6m, water samples were taken at two depths (surface and bottom). For locations with water depth <3m, only the mid-depth was taken. Duplicate water samples were taken and analysed.

The water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 22nd ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including temperature, pH, DO, turbidity, salinity, and water depth were collected by equipment listed in **Table 4.4** and **Table 4.5**. Water samples for SS analysis were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen), delivered to the laboratory within 24 hours of collection.

4.3.2 Maintenance and Calibration

Calibration of In-situ Instruments

All in-situ monitoring instrument was checked, calibrated and certified by a laboratory accredited under HOKLAS before use. Responses of sensors and electrodes were checked with certified standard solutions before each use.

Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. In addition, the turbidity probe was calibrated at least twice per month to establish the relationship between turbidity readings (in NTU) and levels of SS (in mg/l).

Calibration certificates of the monitoring equipment used in the reporting period are listed in **Table 4.4**.

4.3.3 Laboratory Measurement / Analysis

Analysis of SS have been carried out by a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (Reg. No. HOKLAS 066). Sufficient water samples were collected at all the monitoring stations for carrying out the laboratory SS determination. The SS determination works were started within 24 hours after collection of the water samples. The analysis of SS have followed the standard methods summarised in **Table 4.6**. The QA/QC procedures for laboratory measurement/ analysis of SS were presented in Appendix F of the Construction Phase Monthly EM&A Report No.8.

Table 4.6: Laboratory Measurement/ Analysis of SS

Parameters	Instrumentation	Analytical Method	Reporting Limit
SS	Analytical Balance	APHA 2540D	2mg/l

4.4 Summary of Monitoring Results

The updated water quality monitoring schedule for the reporting period is provided in **Appendix C**. Monitoring for both ebb and flood tides on 7 October 2023 were cancelled due to Strong Wind Signal No. 3 in force.

The water quality monitoring results for all parameters except SS, obtained during the reporting period were within their corresponding Action and Limit Levels. The detailed monitoring results are presented in **Appendix D**.

For SS, one testing result triggered the corresponding Action Level, and investigation was conducted accordingly. **Table 4.7** present the summary of SS compliance status at IM and SR stations during mid-ebb tide for the reporting period.

Table 4.7: Summary of SS Compliance Status (Mid-Ebb Tide)

	IM1	IM2	IM7	IM10	IM11	IM12	SR2	SR3	SR4A
03-10-23									
05-10-23									
10-10-23									
12-10-23									
14-10-23									
17-10-23									
19-10-23									
21-10-23									
24-10-23									
26-10-23									
28-10-23									
31-10-23									
No. of result									
triggering Action or Limit Level	1	0	0	0	0	0	0	0	0

Note: D	Note: Detailed results are presented in Appendix D .				
Legend	t:				
	The monitoring results were within the corresponding Action and Limit Levels				

	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring result triggered the corresponding Action Level on one monitoring day. In accordance with Event and Action Plan stipulated in the Manual, IEC and Contractor were informed when the corresponding Action Level was triggered.

Details of the Project's construction activities and site observations of the concerned monitoring day was collected. Findings were summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigation of SS Monitoring Result

Date	Marine construction works nearby	Approximate distance from marine construction works	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
17/10/2023	Nil	N/A	N/A	No	No	No

The investigation confirmed that no marine construction works were undertaken during the concerned monitoring day. No muddy water discharges from outfalls of the reclaimed land were observed.

For SS results recorded at IM1 on 17 October 2023 triggering the corresponding Action Level, no silt plume, construction vessel, spillage incidents or specific observation at outfalls were observed in the vicinity when monitoring was undertaken at the monitoring station. Therefore, the case was possibly due to external factors in the vicinity of this monitoring station. The exceedance case was considered unlikely due to the Project.

4.5 Conclusion

During the reporting period, it is noted that most monitoring results were within their corresponding Action and Limit Levels while one SS measurement result triggered the corresponding Action Level, investigation was conducted accordingly.

Based on the investigation findings, the result that triggered the corresponding Action Level, was not due to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. This case appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, as part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures as recommended in the Manual during weekly site inspections and regular environmental management meetings.

5 Waste Management

In accordance with the Manual, the waste generated from construction activities was audited once per week to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project, contract-specific WMP, and any statutory and contractual requirements. All aspects of waste management including waste generation, storage, transportation and disposal were assessed during the audits.

5.1 Action and Limit Levels

The Action and Limit Levels of the construction waste are provided in **Table 5.1**.

Table 5.1: Action and Limit Levels for Construction Waste

Monitoring Stations	Action Level	Limit Level
Construction Area	When one valid documented complaint is received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

5.2 Waste Management Status

Weekly monitoring on all works contracts were carried out by the ET to check and monitor the implementation of proper waste management practices during the construction phase.

Recommendations made included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors have taken actions to implement the recommended measures. Waste management audits were carried out by ET according to the requirement of the Waste Management Plan, Updated EM&A Manual and the implementation schedule of the waste management mitigation measures in **Appendix B**.

Based on updated contractors' information, construction waste generated in the reporting period is summarised in **Table 5.2**. The ET and IEC have carried out site audits regularly and reviewed the trip ticket system. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel bar, metal strip, aluminium, paper and plastic are sorted on-site and transported off-site for recycling during this reporting period.

Table 5.2: Construction Waste Statistics

	C&D Material Stockpiled for Reuse or Recycle ⁽¹⁾ (m3)	C&D Material Reused in the Project (m3)	Reused in other Projects	Material	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
Sep 2023 ⁽²⁾	0	1,640	1,216	5,408	0	0	3,143
Oct 2023 ⁽³⁾	0	2,440	0	55,944	0	0	1,509

Notes:

- (1) C&D refers to Construction and Demolition.
- (2) Updated figures were provided by contractors.
- (3) The data was based on the information provided by contractors up to the submission date of this Monthly EM&A Report and might be updated in the forthcoming Monthly EM&A Report.

There were no complaints, non-compliance of the WMP, contract-specific WMPs, statutory and contractual requirements that triggered Action and Limit Levels in the reporting period.

5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual, Waste Management Plan and the proposal of Further Development on Treatment Level / Details and the Reuse Mode for Marine Sediment (hereinafter referred to as "Further Development Proposal") of the Project. The sampling process, storage conditions of the excavated marine sediment, treatment process, final backfilling location as well as associated records were inspected and checked by ET and verified by IEC to ensure they were in compliance with the requirements as stipulated in the Waste Management Plan and Further Development Proposal.

No sampling and backfilling works for treated marine sediment were conducted during the reporting period.

6 Chinese White Dolphin Monitoring

In accordance with the Manual, CWD monitoring by small vessel line-transect survey supplemented by land-based theodolite tracking survey and passive acoustic monitoring should be conducted during construction phase.

The small vessel line-transect survey should be conducted at a frequency of two full surveys per month, while land-based theodolite tracking survey should be conducted at a frequency of one day per month per station at Sha Chau (SC) and Lung Kwu Chau (LKC) during the construction phase as stipulated in the Manual.

6.1 Action and Limit Levels

The Action and Limit Levels for CWD monitoring were formulated by the action response approach using the running quarterly dolphin encounter rates STG and ANI derived from the baseline monitoring data, as presented in the CWD Baseline Monitoring Report. The derived values of Action and Limit Levels for CWD monitoring were summarised in **Table 6.1**.

Table 6.1: Derived Values of Action and Limit Levels for Chinese White Dolphin Monitoring

NEL, NWL, AW, WL and SWL as a Whole

Action Level ⁽³⁾	Running quarterly ⁽¹⁾ STG < 1.86 & ANI < 9.35
Limit Level ⁽³⁾	Two consecutive running quarterly ⁽²⁾ (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

- (1) Action Level running quarterly encounter rates STG & ANI of this month will be calculated from the reporting period and the two preceding survey months.
- (2) Limit Level two consecutive running quarters mean both the running quarterly encounter rates of the preceding month and the running quarterly encounter rates of this month.
- (3) Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys were conducted along the transects covering Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) areas as proposed in the Manual, which are consistent with the Agriculture, Fisheries and Conservation Department (AFCD) long-term monitoring programme (except the addition of AW). The AW transect has not been previously surveyed in the AFCD programme due to the restrictions of HKIA Approach Area, nevertheless, this transect was established during the EIA of the 3RS Project and refined in the Manual with the aim to collect project specific baseline information within the HKIA Approach Area to fill the data gap that was not covered by the AFCD programme. This also provided a larger sample size for estimating the density, abundance and patterns of movements in the broader study area of the project.

The planned vessel survey transect lines following the waypoints set for construction phase monitoring as proposed in the Manual are depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

Table 6.2: Coordinates of Transect Lines in NEL, NWL, AW, WL and SWL Survey Areas

Waypoint	Easting	Northing	Waypoint	Easting	Northing
Traypoint	Luoting		EL	Lucting	Horamig
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		N	NL		
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		Α	W		
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		v	VL		
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			
			NL		
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2\$	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
48	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

Land-based theodolite tracking survey stations were set up at two locations, one facing east/south/west on the southern slopes of Sha Chau (SC), and the other facing north/northeast/northwest at Lung Kwu Chau (LKC). The stations (D and E) are depicted in **Figure 6.2** and shown in **Table 6.3** with position coordinates, height of station and approximate distance of consistent theodolite tracking capabilities for CWD.

Table 6.3: Land-based Theodolite Survey Station Details

Stations	Location	Geographical Coordinates	Station Height (m)	Approximate Tracking Distance (km)
D	Sha Chau (SC)	22° 20′ 43.5″ N 113° 53′ 24.66″ E	45.66	2
Е	Lung Kwu Chau (LKC)	22° 22' 44.83" N 113° 53' 0.2" E	70.40	3

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

Small vessel line-transect surveys provided data for density and abundance estimation and other assessments using distance-sampling methodologies, specifically, line-transect methods.

The surveys involved small vessel line-transect data collection and have been designed to be similar to, and consistent with, previous surveys for the AFCD for their long-term monitoring of small cetaceans in Hong Kong. The survey was designed to provide systematic, quantitative measurements of density, abundance and habitat use.

As mentioned in **Section 6.2.1**, the transects covered NEL, NWL, AW, WL and SWL areas as proposed in the Manual, which are consistent with the AFCD long-term monitoring programme (except AW). There are two types of transect lines:

- Primary transect lines: the parallel and zigzag transect lines as shown in Figure 6.1; and
- Secondary transect lines: transect lines connecting between the primary transect lines and going around islands.

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pairs. Only on-effort data collected under favourable conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20m vessel with a flying bridge observation platform about 4 to 5m above water level and unobstructed forward view, and a team of three to four observers were deployed to undertake the surveys. Two observers were on search effort at all times when following the transect lines with a constant speed of 7 to 8 knots (i.e. 13 to 15 km per hour), one using 7X handheld binoculars and the other using unaided eyes and recording data.

During on-effort survey periods, the survey team recorded effort data including time, position (waypoints), weather conditions (Beaufort sea state and visibility) and distance travelled in each series with assistance of a handheld GPS device. The GPS device also continuously and automatically logged data including time, position (latitude and longitude) and vessel speed throughout the entire survey.

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+

telephoto lens), then followed until they were lost from view. At that point, the boat returned (off effort) to the survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

Focal follows of dolphins would be used for providing supplementary information only where practicable (i.e. when individual dolphins or small stable groups of dolphins with at least one member that could be readily identifiable with unaided eyes during observations and weather conditions are favourable). These would involve the boat following (at an appropriate distance to minimise disturbance) an identifiable individual dolphin for an extended period of time, and collecting detailed data on its location, behaviour, response to vessels, and associates.

6.3.2 Photo Identification

CWDs can be identified by their unique features like presence of scratches, nick marks, cuts, wounds, deformities of their dorsal fin and distinguished colouration and spotting patterns.

When CWDs were observed, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens). The survey team attempted to photograph both sides of every single dolphin in the group as the colouration and spotting pattern on both sides may not be identical. The photos were taken at the highest available resolution and stored on Compact Flash memory cards for transferring into a computer.

All photos taken were initially examined to sort out those containing potentially identifiable individuals. These sorted-out images would then be examined in detail and compared to the CWD photo-identification catalogue established for 3RS Project during the baseline monitoring stage.

6.3.3 Land-based Theodolite Tracking Survey

Land-based theodolite tracking survey obtains fine-scale information on the time of day and movement patterns of the CWDs. A digital theodolite (Sokkia/Sokkisha Model DT5 or similar equipment) with 30-power magnification and 5-s precision was used to obtain the vertical and horizontal angle of each dolphin and vessel position. Angles were converted to geographic coordinates (latitude and longitude) and data were recorded using *Pythagoras* software, Version 1.2. This method delivers precise positions of multiple spatially distant targets in a short period of time. The technique is fully non-invasive, and allows for time and cost-effective descriptions of dolphin habitat use patterns at all times of daylight.

Three surveyors (one theodolite operator, one computer operator, and one observer) were involved in each survey. Observers searched for dolphins using unaided eyes and handheld binoculars (7X50). Theodolite tracking sessions were initiated whenever an individual CWD or group of CWDs was located. Where possible, a distinguishable individual was selected, based on colouration, within the group. The focal individual was then continuously tracked via the theodolite, with a position recorded each time the dolphin surfaced. In case an individual could not be positively distinguished from other members, the group was tracked by recording positions based on a central point within the group whenever the CWD surfaced. Tracking continued until animals were lost from view; moved beyond the range of reliable visibility (>1-3km, depending on station height); or environmental conditions obstructed visibility (e.g., intense haze, Beaufort sea state >4, or sunset), at which time the research effort was terminated. In addition to the tracking of CWD, all vessels that moved within 2-3km of the station were tracked, with effort made to obtain at least two positions for each vessel.

Theodolite tracking included focal follows of CWD groups and vessels. Priority was given to tracking individual or groups of CWD. The survey team also attempted to track all vessels moving within 1 km of the focal CWD.

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 6, 12, 13, 16, 17, 20, 26 and 27 October 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 456.16 km of survey effort was collected from these surveys and around 453.39 km survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix D**.

Sighting Distribution

In the current reporting period, seven sightings with 20 dolphins were sighted. All these sightings were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of dolphin sightings are presented in **Appendix D**.

Distribution of all CWD sightings recorded in the current reporting period is illustrated in **Figure 6.3**. In WL, most of the CWD sightings were scattered at the waters between Tai O and Yi O. In SWL, a CWD sighting was recorded at the Soko Islands. There was no CWD sighting recorded in NWL and NEL survey areas during the reporting period.

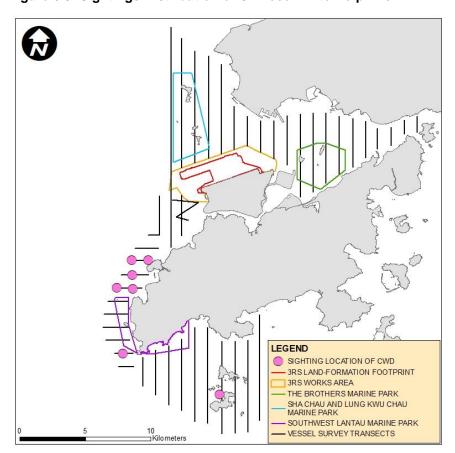


Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are seven pink circles on the map indicating the sighting locations of CWDs. Some of them were very close to each other and therefore may appear overlapped on this distribution map. (2) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the vessel survey data. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{Total\ No.\ of\ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{Total\ No.\ of\ Dolphins\ from\ On-effort\ Sightings}{Total\ Amount\ of\ Survey\ Effort\ (km)}\ x\ 100$$

(Notes: Only data collected under Beaufort 3 or below condition were used)

In this reporting period, a total of around 453.39 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of seven on-effort sightings with 20 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix D**.

For the running quarter of the reporting period (i.e., from August to October 2023), a total of around 1333.16 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 39 on-effort sightings and a total number of 113 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix D**.

The STG and ANI of CWD in the whole survey area (i.e., NEL, NWL, AW, WL and SWL) during the reporting period and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. Although the running quarterly encounter rate ANI fall below the Action Level, the Action Level is not triggered as the running quarterly STG remain above the Action Level.

Table 6.4: Comparison of CWD Encounter Rates of the Whole Survey Area with Action Levels

	Encounter Rate (STG)	Encounter Rate (ANI)
October 2023	1.54	4.41
Running Quarter from August to October 2023 ⁽¹⁾	2.93	8.48
Action Level	Running quarterly ⁽¹⁾ ST	ΓG < 1.86 & ANI < 9.35

Note: (1) Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, containing six sets of transect surveys for all monitoring areas. Action Level will be triggered if both STG and ANI fall below the criteria.

Group Size

In the current reporting period, seven groups of 20 dolphins in total were sighted, and the average group size of CWDs was 2.9 dolphins per group. The majority of the CWD sightings was having small group size (i.e. 1-2 dolphins). There was no CWD sighting with large group size (i.e. 10 or more dolphins) recorded in the current reporting period.

Activities and Association with Fishing Boats

There was one CWD sighting recorded engaging in foraging activities in the current reporting period in WL survey areas. The sighting was observed in association with operating gillnetter.

Mother-calf Pair

In this reporting period, there was a sighting with the presence of mother-and-unspotted juvenile pair recorded in WL.

6.4.2 Photo Identification

In the current reporting period, a total number of 13 different CWD individuals were identified for totally 13 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix D**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd- mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd- mmm-yy)	Sighting Group No.	Area
NLMM023	20-Oct-23	1	WL	SLMM060	13-Oct-23	3	WL
NLMM041	13-Oct-23	1	WL	SLMM064	13-Oct-23	4	WL
SLMM007	13-Oct-23	4	WL	WLMM007	13-Oct-23	4	WL
SLMM014	13-Oct-23	4	WL	WLMM109	13-Oct-23	4	WL
SLMM023	13-Oct-23	4	WL	WLMM149	13-Oct-23	1	WL
SLMM037	27-Oct-23	2	SWL	WLMM192	13-Oct-23	4	WL
SLMM052	13-Oct-23	4	WL	<u>, </u>		•	•

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 5 October 2023 and at SC on 11 October 2023, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWD were tracked off at LKC and SC stations during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix D**.

Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau (LKC)	1	6:00	0	0
Sha Chau (SC)	1	6:00	0	0
TOTAL	2	12:00	0	0

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. Both C-POD and F-POD are considered as effective PAM devices in detecting CWD occurrence, and F-POD was the main PAM device deployed where feasible. During this reporting period, the F-POD was remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.4**). The F-POD was last retrieved on 1 August 2023 and the next retrieval and re-deployment is schedule in early-

November 2023. Acoustic data would be reviewed to give an indication of CWD occurrence patterns and anthropogenic noise information. Analysis would involve use of proprietary software for objective automated data analyses and experienced analysts to perform visual validation for assessment of dolphin detection. As the period of data collection and analysis takes about four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, two dolphin observation stations and teams of at least two dolphin observers were deployed by the contractor for continuous monitoring of the DEZ for rock armour laying works in accordance with the DEZ Plan. No trainings for the proposed dolphin observers on the implementation of DEZ monitoring were provided by the ET during this reporting period, with a cumulative total of 705 individuals being trained and the training records kept by the ET. From the contractors' records, no dolphin or other marine mammals were observed during this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.4** and **Section 7.5** respectively.

6.7 Timing of reporting CWD Monitoring Results

Detailed analysis of CWD monitoring results collected by small vessel line-transect survey will be provided in future quarterly reports. Detailed analysis of CWD monitoring results collected by land-based theodolite tracking survey and PAM will be provided in future annual reports after a larger sample size of data has been collected.

6.8 Summary of CWD Monitoring

Monitoring of CWD was conducted with two complete sets of small vessel line-transect surveys and two days of land-based theodolite tracking survey effort. The running quarterly encounter rates STG and ANI in the reporting period did not trigger the Action Level for CWD monitoring.

Although the 3RS land formation works were completed in the first quarter of 2023, the construction phase CWD monitoring will be continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

Site inspections of the construction works to audit the implementation of proper environmental pollution control and mitigation measures for the Project were conducted by ET and IEC on a weekly and bi-weekly basis, respectively. The weekly site inspection schedule of the construction works is provided in **Appendix C**. Besides, ad-hoc site inspections were also conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

During site inspections, environmental situation, status of implementation of pollution control and mitigation measures were observed. Environmental documents and site records, including waste disposal record, maintenance record of environmental equipment, and relevant environmental permit and licences, were also checked on site. Observations were recorded in the site inspection checklist and passed to the contractor together with the recommended mitigation measures where necessary in order to advise contractors on environmental improvement, awareness and on-site enhancement measures. The observations were made with reference to the following information during the site inspections:

- The EIA and EM&A requirements;
- Relevant environmental protection laws, guidelines, and practice notes;
- The EP conditions and other submissions under the EP;
- Monitoring results of EM&A programme;
- Works progress and programme;
- Proposal of individual works;
- Contract specifications on environmental protection; and
- Previous site inspection results.

Good site practices were observed in site inspections during the reporting period. Advice was given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organised for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures.

A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

7.2 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 and OM7 in **Appendix B**) was monitored in accordance with the Manual. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase shall be audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.

The implementation status of the environmental protection measures is summarized below in **Table 7.1**. Examples of landscape and visual mitigation measures are shown in **Table 7.2**. The monitoring programme for detailed design, construction, establishment works and long term management (10 years) stages is presented in **Table 7.3**. Event and Action Plan for Landscape and Visual impacts is stated in **Table 7.4**.

Table 7.1: Landscape and Visual - Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction **Implementation Status**

Relevant Contract(s) in the Reporting Period

CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.

CM2 – Reduction of construction period to practical minimum

CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.

CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.

CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.

CM6 – Avoidance of excessive height and bulk of site buildings and structures

CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods

CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Under Specification. this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas

The implementation of mitigation measures was checked All works contracts by ET during weekly site inspection and reported by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.

Tree Protection Specifications were provided in the 3508, 3801 relevant Contract Specifications respectively for implementation by the Contractors under the Project.

The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.

Landscape and Visual Mitigation Measures during Construction

Implementation Status

Relevant Contract(s) in the Reporting **Period**

CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme

Tree Transplanting Specifications were provided in the 3508, 3801 relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works.

The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site.

The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works.

Long term management of the transplanted trees was currently monitored by ET annually.

CM10 - Land formation works shall followed with advanced hydroseeding around taxiways and runways as soon as practical

The advanced hydroseeding works around taxiways and To be implemented runways were partially completed at this stage and would resume in next phase.

OM7- Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall determined and agreed separately with Government during the Tree Felling Application process under the relevant technical circulars.(1)

The first batch of compensatory tree was planted and the 3RS Project first bi-monthly site inspection for the 12-month contracts establishment period was undertaken in June 2023. Bimonthly site inspection was conducted in October 2023. A photo showing the general view of compensatory planting was shown in Table 7.2.

Note:

(1) AAHK is the management and maintenance agency of the compensatory trees. Tree Felling Application is not required for 3RS project.

Table 7.2: Examples of Landscape and Visual Mitigation Measures in the Reporting Periods



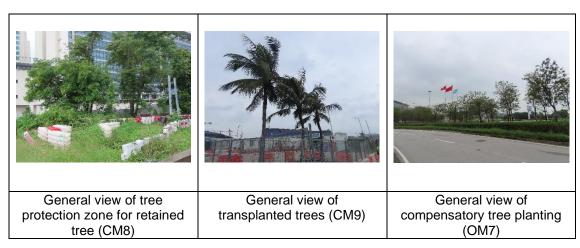
Erection of site hoardings around works area in unobtrusive colours (CM5)



Avoidance of excessive height and bulk of site buildings (CM6)



Control of night-time lighting using light hooding and minimisation of night working period (CM7)



In accordance with the Updated EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the cumulative total number of retained trees and transplanted trees under the Project remained unchanged (i.e. 37 and 26 respectively) comparing to the previous reporting period.

Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**. Details of the retained trees are to be discussed in the Quarterly EM&A reports.

For the compensatory tree monitoring, the bi-monthly site inspection for the 12-month establishment period was conducted in October 2023. Next inspection will be conducted in December 2023.

Table 7.3: Monitoring Programme for Landscape and Visual

Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Detailed Design	Checking of design works against the recommendations of the landscape and visual impact assessments within the EIA shall be undertaken during detailed design and tender stage, to ensure that they fulfil the intention of the mitigation measures. Any changes to the design, including design changes on site shall also be checked.	Report by AAHK / PM confirming that the design conforms to requirements of EP.	Approved by Client	At the end of the Detailed Design Phase
Construction	Checking of the contractor's operations during the construction period.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Weekly
Establishment Works	Checking of the planting works during the twelve-month Establishment Period after completion of each batch of transplanting works.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Every two months
Long Term Management (10 year)	Monitoring of the long-term management of the planting works in the period up to 10	Report on compliance by ET or	Counter signature of report by	Annually

years after completion of each batch of transplanting works.

maintenance Agency as appropriate Management Agency

Table 7.4: Event and Action Plan for Landscape and Visual

Event Action	Action			
Level	ET	IEC	AAHK/PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	Check report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Check implementation of remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of nonconformity. Rectify damage and undertake additional action necessary.
Repeated Non-conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of nonconformity. Rectify damage and undertake additional action necessary.

Table 7.5: Summary of the Number of Retained, Transplanted and To-be-transplanted Trees in the Reporting Period

Contract	Retain (nos.)	Transplan	ted (nos.)	To-be-transplanted (nos.)
No.		Establishment Period	Maintenance Period	
3503 ⁽¹⁾	0	0	9	0
3508	34	0	12	0
3801	3	0	5	0
Grand Total	37	0	26	0

Note:

⁽¹⁾ Contract 3503 is completed, the 9 transplanted trees have been handed over to AAHK.

Summary of the updated transplanted trees and photos are presented in **Table 7.6**.

Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks	
CT276	3 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos of the last inspection in	
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	February 2023 can be referre to Table 7.7 of the Constructic Phase Monthly EM&A Report No. 86.	
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Establishment Period was completed. Next inspection will be conducted in February 2024.	
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	Photos of the last inspection in February 2023 can be referred to Table 7.7 of the Construction	
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	ААНК	Phase Monthly EM&A Report No. 86.	
T812	21 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	Establishment Period was completed. Next inspection will	
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	 be conducted in December 2023. Photos of the last inspection in December 2022 	
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.84. 	
T829	18 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	-	
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	-	
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	-	
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will	
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	 be conducted in July 2024. Photos of the last inspection in July 2023 can be referred to 	
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	 Table 7.7 of the Construction Phase Monthly EM&A Report No. 91. 	
T1496	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	
T1497	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	
T1498	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	
T1500	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	
T1501	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-	

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T1502	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

7.3 Land Contamination Assessment

The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20. The CARs for Golf Course and T2 Emergency Power Supply Systems (EPSS) were submitted to EPD in accordance with EP Condition 1.9 and the Supplementary CAP in which no land contamination issues were identified. EPD issued no further comment for aforesaid CARs. No leakage was found after the removal of underground fuel pipelines of T2 EPSS and all required additional photos have been submitted to EPD.

According to the approved supplementary CAP, there are 3 remaining locations where site reappraisal / additional site investigation are proposed. Site re-appraisal was conducted at one of the above remaining locations, fire training facilities on 22 August 2023. The findings of the reappraisal is under review during the reporting period and will be updated in the next monthly EM&A report. The status of site re-appraisal/ additional site investigation of the 2 remaining locations shall be further updated upon latest development programme is available.

7.4 Audit of SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implement the mitigation measure of requiring HSFs of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the

area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Due to the operational needs, the SkyPier HSF services to/from Zhuhai has been suspended until further notice. Key audit findings for the SkyPier HSF travelling to/from Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.7**. The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 6 to 52 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the Annual EM&A Report.

In total, 26 ferry movements between HKIA SkyPier and Macau were recorded in October 2023 and the data are presented in **Appendix H**. The time spent by the SkyPier HSF travelling through the SCZ in September 2023 was presented in **Figure 7.1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that all the SkyPier HSF spent more than 9.6 minutes to travel through the SCZ.

Duration of Ferry Movements through SCZ for Oct-2023 18 Time travelled through the SCZ (minutes) 16 14 12 10 8 through SCZ at speed of 6 4 0 6-Oct-2023 32-Oct-2023 05-Oct-2023 0-Oct-2023 12-Oct-2023 13-Oct-2023 14-Oct-2023 15-Oct-2023 17-Oct-2023 18-Oct-2023 19-Oct-2023 21-Oct-2023 22-Oct-2023 23-Oct-2023 24-Oct-2023 08-Oct-2023 39-Oct-2023 11-Oct-2023 25-Oct-202; 26-Oct-2023

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for October 2023

Note: Data above the red line indicated that the time spent by the SkyPier HSFs travelling through the SCZ is more than 9.6 minutes, which is in compliance with the SkyPier Plan.

Table 7.7: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 to 31 October 2023
Total number of ferry movements recorded and audited for HSF to/from Macau	26
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
Speed control in speed control zone	The average speed of all HSFs travelling through the SCZ ranged from 11.5 to 13.4 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in Figure 7.1.
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	6 to 52 daily movements

7.5 Audit of Construction and Associated Vessels

The updated MTRMP-CAV was approved by EPD on 31 May 2022 under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- The MSS automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding within the works area, entering from non-designated gates and entering no entry zone were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly Construction Traffic Control Centre (CTCC) audit.
- Three-month rolling programmes (one month record and three months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

7.6 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Manual, and approved in April 2016 by EPD. The ET checked the contractors' dolphin sighting record and relevant records to audit the implementation of DEZ and there was no finding.

During the reporting period, there was no dolphin sighting within the DEZ.

7.7 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table** 7.8

Table 7.8: Status of Submissions under Environmental Permit

2.1 Complaint Management Plan 2.4 Management Organizations 2.5 Construction Works Schedule and Location Plans 2.7 Marine Park Proposal 2.8 Marine Ecology Conservation Plan 2.9 Marine Travel Routes and Management Plan for Construction and Associated Vessels 2.10 Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier 2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	i
Construction Works Schedule and Location Plans 2.7 Marine Park Proposal 2.8 Marine Ecology Conservation Plan 2.9 Marine Travel Routes and Management Plan for Construction and Associated Vessels 2.10 Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier 2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
2.7 Marine Park Proposal 2.8 Marine Ecology Conservation Plan 2.9 Marine Travel Routes and Management Plan for Construction and Associated Vessels 2.10 Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier 2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
Marine Ecology Conservation Plan Marine Travel Routes and Management Plan for Construction and Associated Vessels Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier Marine Mammal Watching Plan Coral Translocation Plan Tisheries Management Plan Egretry Survey Plan Silt Curtain Deployment Plan	
Marine Travel Routes and Management Plan for Construction and Associated Vessels 2.10 Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier 2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
Vessels 2.10 Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier 2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
2.11 Marine Mammal Watching Plan 2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
2.12 Coral Translocation Plan 2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	
2.13 Fisheries Management Plan 2.14 Egretry Survey Plan 2.15 Silt Curtain Deployment Plan	d by
2.15 Silt Curtain Deployment Plan	
. ,	
On'll Page and Plag	
2.16 Spill Response Plan	
2.17 Detailed Plan on Deep Cement Mixing	
2.18 Landscape & Visual Plan	
2.19 Waste Management Plan	
2.20 Supplementary Contamination Assessment Plan	

EP Condition	Submission	Status
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.8 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded. The latest statuses of the environmental licenses and permits in the reporting period are presented in **Appendix F**.

7.9 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

7.9.1 Complaints

Five complaints were received during the reporting period.

A complaint regarding dust nuisance observed on reclaimed land area was received on 4 October 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. ET requested the relevant contractors to provide information regarding the complaint. During the ET's site inspection, water spraying was provided on the related haul road, yet part of the road was observed dry with fugitive dust generated during vehicle movements. The concerned contractor updated their dust suppression plan and an additional water truck was provided plus two sets of water sprinkler systems were installed to enhance their dust mitigation measures. The ET would continue to monitor their performance on their enhanced dust mitigation measures. Hence, the case was considered closed.

The other four cases are under investigation and finding will be reported in the next Monthly EM&A Report.

7.9.2 Notifications of Summons or Status of Prosecution

Neither notification of summons nor prosecution was received during the reporting period.

7.9.3 Cumulative Statistics

Cumulative statistics on complaints, notifications of summons and status of prosecutions are summarised in **Appendix G**.

8 Future Key Issues and Other EIA & EM&A Issues

8.1 Construction Programme for the Coming Reporting Period

Key activities anticipated in the next reporting period for the Project will include the following:

Contract 3206 Main Reclamation Works

- Filling materials delivery; and
- Backfilling works.

Airfield Works

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works; and
- Utilities and backfilling works.

Contract 3305 Airfield Ground Lighting System

- Enhanced vehicular warning light hardware installation;
- Power supply system installation; and
- Cable containment installation.

Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- · Equipment installation; and
- Structured cabling.

Contract 3308 Foreign Object Debris Detection System

- Construction of foundation; and
- Tower modification works.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;
- · Rock armour laying works;
- Pavement works for runway;
- Construction of stormwater drainage;
- Construction of vehicular tunnel;
- Aviation fuel pipe works;
- Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- · Electrical and mechanical works; and
- Demolition of antenna tower.

Contract 3404 Integrated Airport Control System

System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

Structure works:

- · Marine sediment treatment works; and
- Tunnel concreting and backfilling works.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and architectural, builder's work and finishing works;
- Fuel pipe installation works;
- Utilities works;
- Marine sediment treatment works;
- · Erection works for concrete batching plant;
- Excavation and reinforced concrete works; and
- Cable Laying Works

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Pier construction;
- Drainage construction;
- Construction of beams and columns;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

Automated People Mover (APM) and Baggage Handling System (BHS):

Contract 3601 New Automated People Mover System (TRC Line)

Guide beam installation.

Contract 3602 Existing APM System Modification Works

Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Steel work installation.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Road reinstatement works;
- · Erection of formworks; and
- Casted walkway structure.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction and superstructure works; and
- APM and BHS Tunnel construction.

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Bored pile works;
- Raft foundation, footing and superstructure works;
- Tower crane footing and erection works; and
- Pile cap construction works and precast erection works.

Contract 3805 New Airport District Police Operational Base

Bored pile works.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

Contract 3913 Asphalt Batching Plant

Operation of asphalt batching plant.

Utilities:

132kV Cable

- Cable trenching and cable layering;
- Duct installation and cable duct mandrill test;
- Backfilling; and
- Draw pit opening.

8.2 Key Environmental Issues for the Coming Reporting Period

8.2.1 Construction Activities in the Coming Reporting Period

The key environmental issues for the Project in the coming reporting period expected to be associated with the construction activities include:

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- DEZ monitoring for rock armour laying works;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works; and
- Management of chemicals and avoidance of oil spillage on-site.

The implementation of required mitigation measures by the contractors will be monitored by the ET.

8.2.2 Post-construction Phase Water Quality Monitoring

With the completion of land formation works, the post-construction water quality monitoring exercise would be carried out for four weeks, in the same manner as the impact monitoring during construction phase. The post-construction phase water quality monitoring will be undertaken in November 2023.

8.3 Monitoring Schedule for the Coming Reporting Period

A tentative schedule of the planned environmental monitoring work in the next reporting period and the post-construction phase water quality monitoring schedule are provided in **Appendix C**.

8.4 Review of the Key Assumptions Adopted in the EIA Report

With reference to Appendix E of the Manual, it is noted that the key assumptions adopted in approved EIA report for the construction phase are still valid and no major changes are involved. The environmental mitigation measures recommended in the approved EIA Report remain applicable and shall be implemented in undertaking construction works for the Project.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included rock armour laying works, land improvement works and filling works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved Terminal 2 expansion works, modification and tunnel work for APM and BHS, utilities works, road and drainage works, demolition, piling, excavation works, and 132kV cable laying works.

All the monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

Monitoring results of construction dust, construction noise, construction waste and CWD did not trigger the corresponding Action and Limit Levels during the reporting period.

The water quality monitoring results for all parameters, except suspended solids (SS), obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS, one of the testing results triggered the relevant Action Level, and corresponding investigation was conducted accordingly. The investigation finding revealed that the case was not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

With the completion of 3RS land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023. The impact water quality monitoring was terminated after 31 October 2023. A post-construction water quality monitoring exercise would be carried out for four weeks, in the same manner as the impact monitoring during construction phase. The tentative commencement date of post-construction phase water quality monitoring will be scheduled on 14 November 2023. The post-construction phase water monitoring schedule is provided in **Appendix C**. The construction phase CWD monitoring will be continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual basis.

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 6 to 52 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 26 HSFs movements under the SkyPier Plan were recorded in the reporting period. The average speed of all HSFs travelling through the SCZ ranged from 11.5 to 13.4 knots. All HSFs travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. In summary, the ET and IEC audited the HSF movements against the SkyPier Plan and conducted follow up investigations or actions accordingly.

On the implementation of MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone and not travelling through the designated gates. ET

conducted checking to ensure the MSS records all deviation cases accurately. Deviations including speeding within the works area, entering from non-designated gates and entering no entry zone were reviewed by ET. All the concerned captains were reminded by the contractor's CTCC representative to comply with the requirements of the MTRMP-CAV. The ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park and the Sha Chau & Lung Kwu Chau Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

Figures

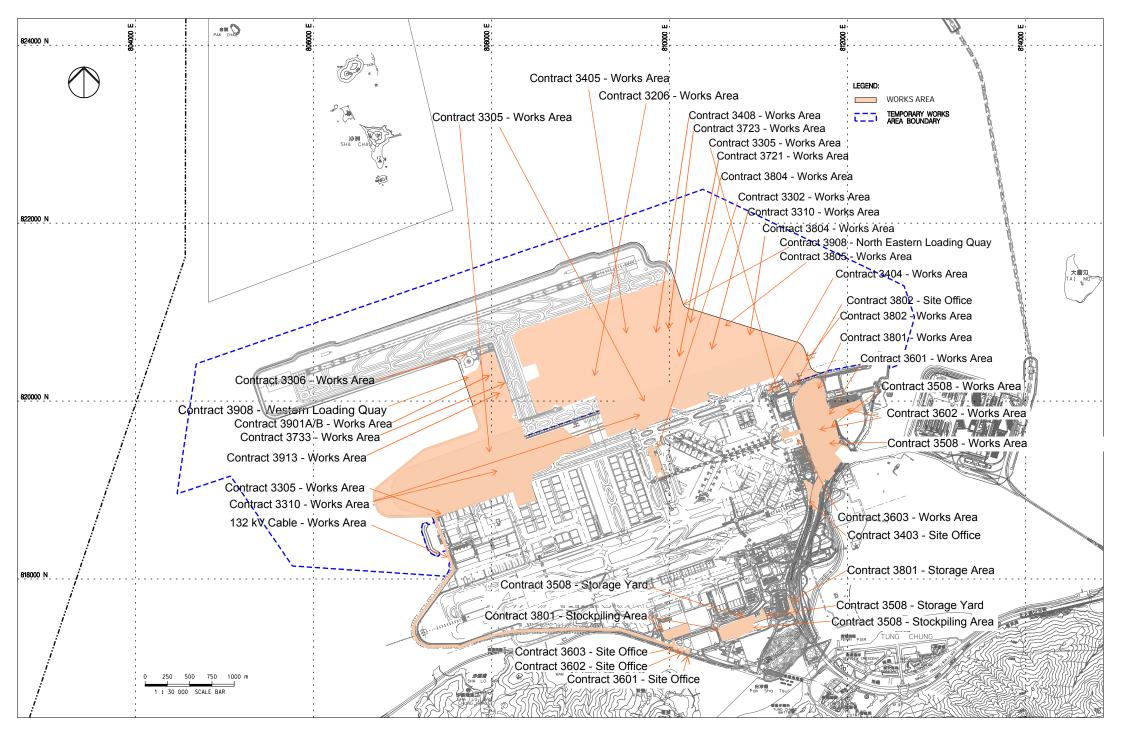
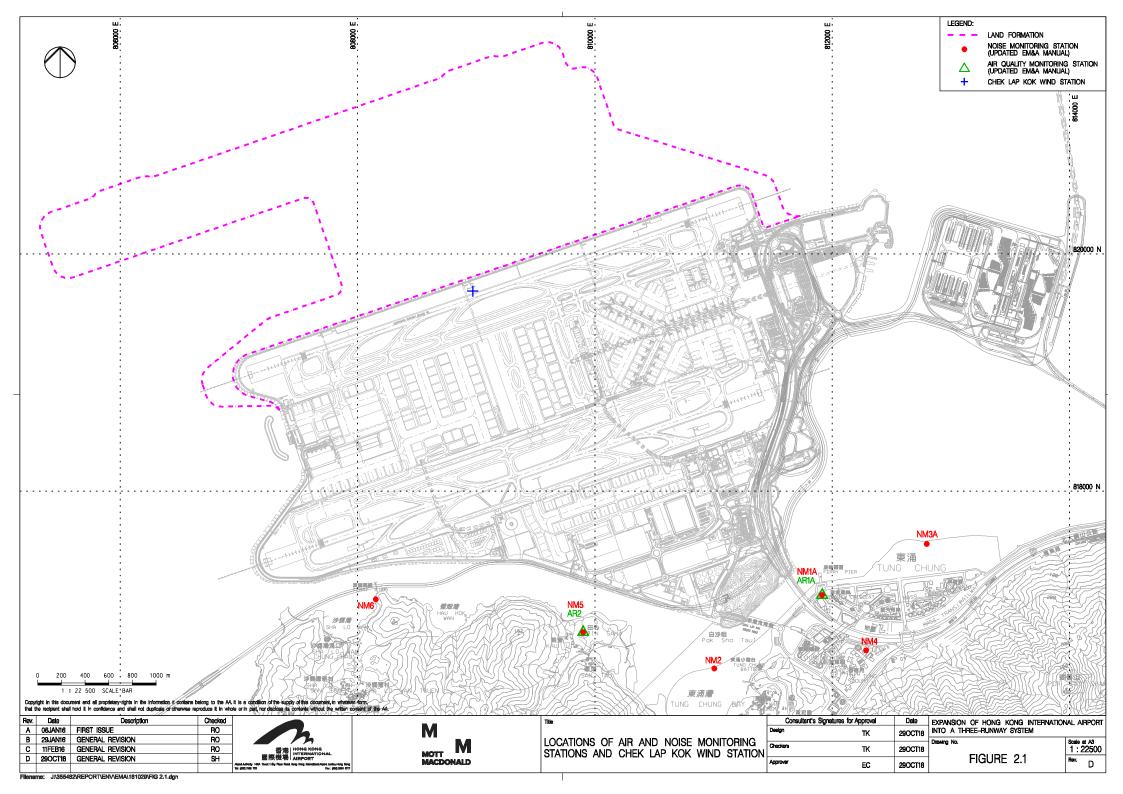
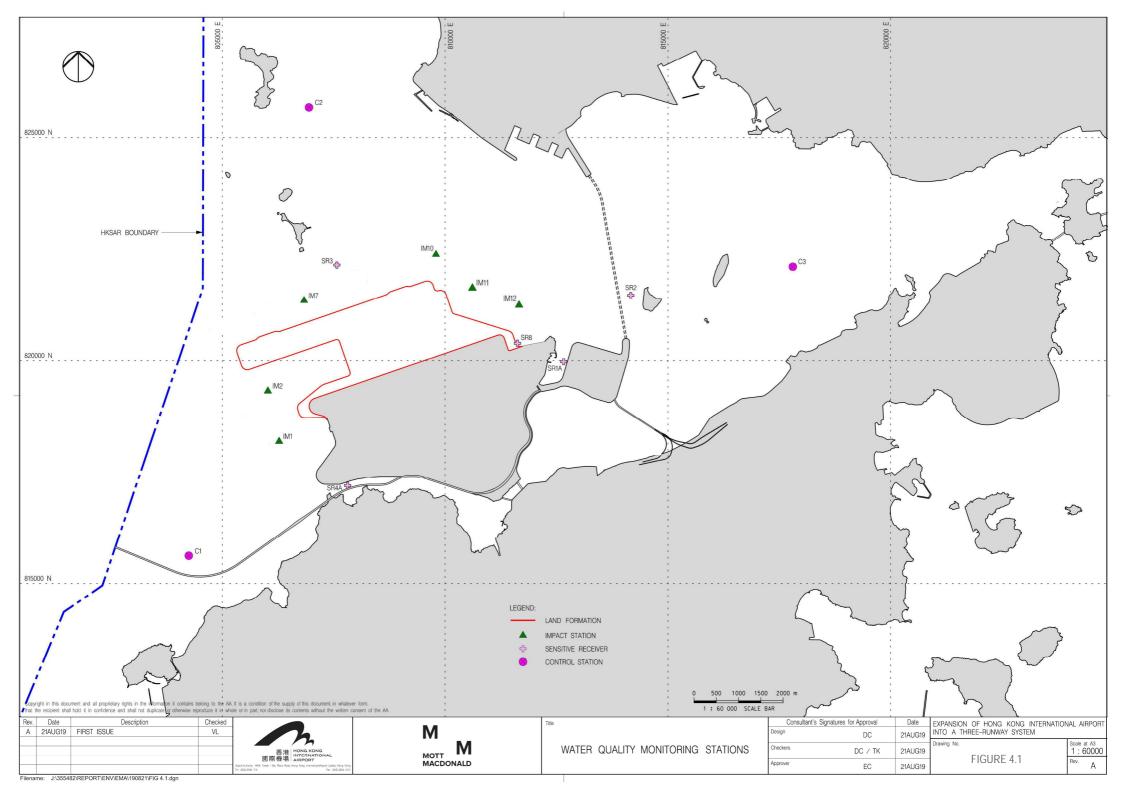
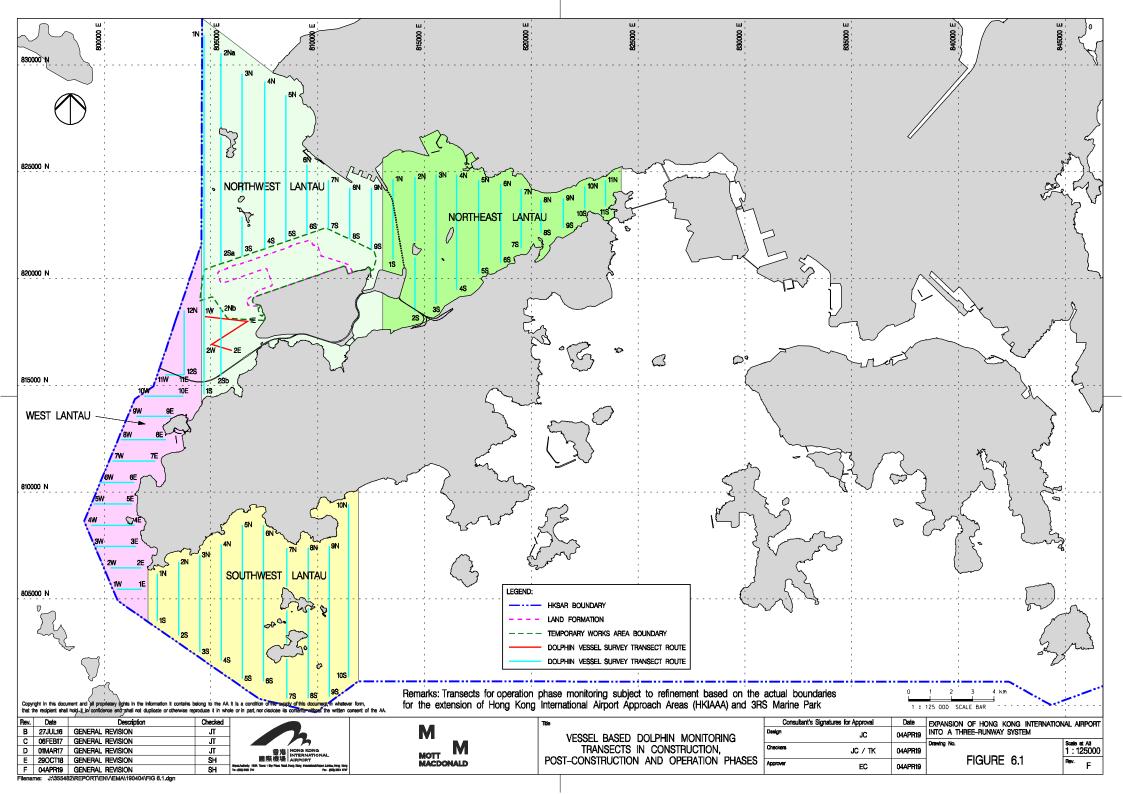
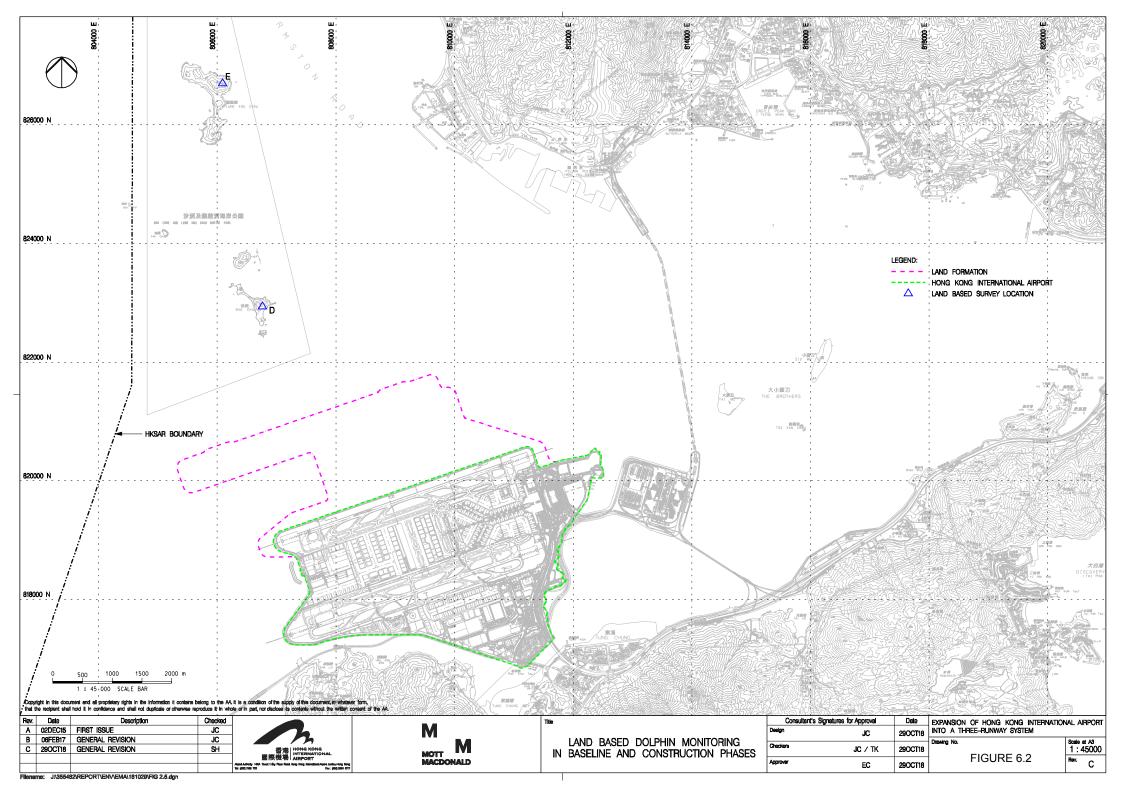


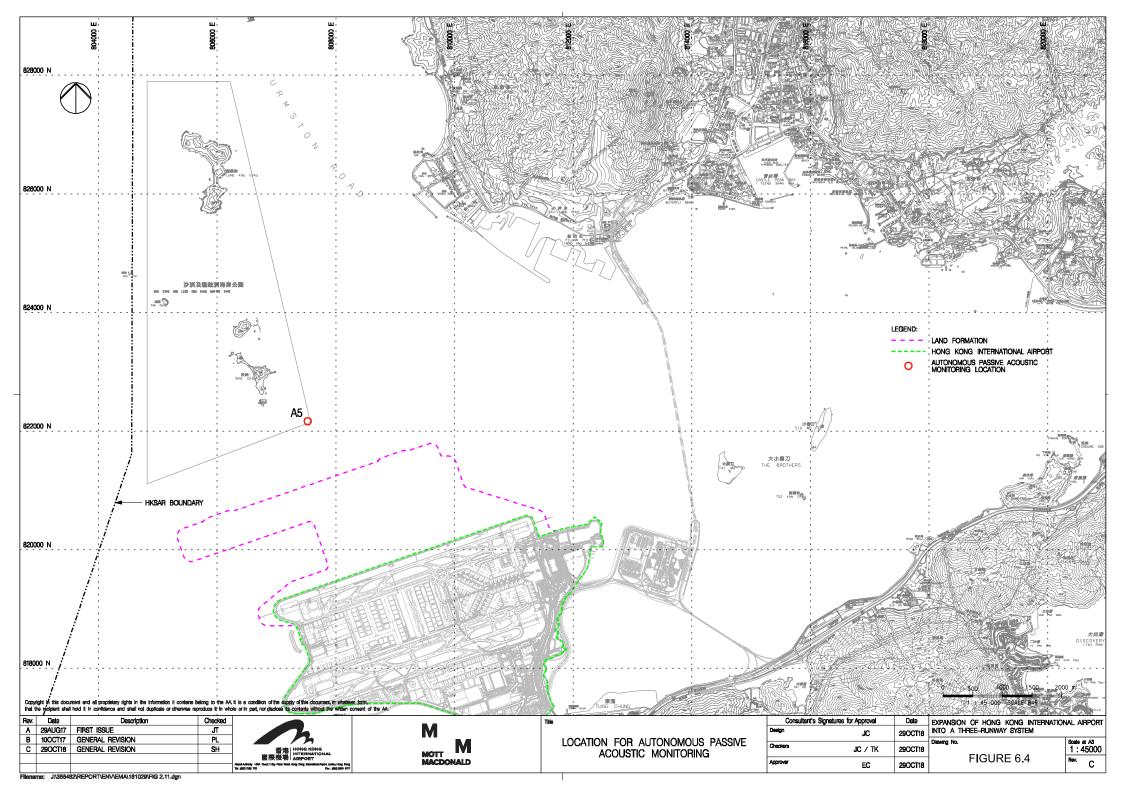
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











Appendix A. Contract Description

Contract Description

Contract No.	Contract Title	Contractor	Key Construction Activities
3206	Reclamation Contract	Zhen Hua Engineering Company LtdChina Communications Construction Company LtdCCCC Dredging (Group) Company Ltd. Joint Venture	The works covered by the Contract 3206 comprise the formation of approximately 650 hectares of land north of the existing airport island for the project, the major construction activities including without limitation the following • Geotechnical and ground improvement works; • Seawall construction; • Marine and land filling works; and • Civil works.
3302	Eastern Vehicular Tunnel Advance Works	China Road and Bridge Corporation	The works covered by the Contract 3302 comprise the design and construction of the first section of the new Eastern Vehicular Tunnel and a Road Tunnel Plant Building. The major construction activities include without limitation the following: • Foundation and structural works; • Cast-in / Underground electrical & mechanical works and utility services; and • All associated testing and commissioning works.
3305	Airfield Ground Lighting System	ADB Safegate Hong Kong Limited	The works covered by the Contract 3305 comprise the design, manufacture, installation and handover of the Airfield Ground Lighting (AGL) System. The major construction activities include without limitation the following: • Light fittings works; • Power Supply System installation; • Fibre optic cables and data cables supply and connection; • Set up Control and Communication system; • All associated testing and commissioning works.
3306	Observation Facility Control Systems Supporting Interim 2RS and 3RS	Chinney Alliance Engineering Limited	The works covered by the Contract 3306 comprise the design, procurement, manufacture, supply, installation, testing and commissioning of the Observation Facility Control Systems and Airfield Network for the interim Two-Runway System and Three-Runway System respectively. The major construction activities include without limitation the following: • Power Supply System installation;

Contract No.	Contract Title	Contractor	Key Construction Activities
			 Fibre optic cables and data cables supply and connection; Set up Control and Communication system; Minor building work and accessories; and All associated testing and commissioning works.
3307	Fire Training Facility	Paul Y. Construction Company Limited	The works covered by the Contract 3307 comprise the construction of a Fire Training Facility on the new reclamation area to replace the existing facility at the Airport Island. The major construction activities include without limitation the following: • Building services works; • Civil works; and • All associated testing and temporary works.
3308	Foreign Object Debris Detection System	DAS Aviation Services Group	The works cover by the Contract 3308 comprise the entire expanded Foreign Object Debris (FOD) detection system required for the operation of new Three-Runway System at Hong Kong International Airport. The major construction activities include without limitation the following: • Excavation works; • Construction of FOD sensor towers; • Set up FOD detection system; • Civil and structural works; and • All associated electrical and mechanical works.
3310	North Runway Modification Works	China State Construction Engineering (Hong Kong) Ltd Fujita Corporation Joint Venture	The works cover by the Contract 3310 comprise the modification of north runway and the connections of taxiways to the modified north runway on existing airport island. The major construction activities include without limitation the following: • Modification works for existing north runway; • Connections works for new taxiways; • Construction of ancillary buildings/ facilities; • Building services and airport systems; • Infrastructure Works; • Underground utilities and services; and • All associated asphalt pavement work and earthwork.

Contract No.	Contract Title	Contractor	Key Construction Activities
3402	New Integrated Airport Centers Enabling Works	Wing Hing Construction Co., Ltd.	The works covered by the Contract 3402 comprise the enabling works for the new Integrated Airport Centers. The major construction activities include without limitation the following: • Site clearance and demolition; • Building services works; • Utilities diversion and installation works; • Roadworks including associated facilities; and • All associated testing and commissioning works.
3403	New Integrated Airport Centres – Building and Civil Works	Sun Fook Kong Construction Limited	The works covered by the Contract 3403 comprise the construction of a new Integrated Airport Centre (IAC) and a number of ancillary facilities and Additions and Alteration (A&A) works for converting the existing IAC into a back-up IAC, including without limitation the following: • Site clearance and demolition; • Building structure and envelope; • Building Services and Airport Systems; and • Utilities division and installations.
3404	Integrated Airport Control System	Shun Hing Systems Integration Co., Ltd.	The works covered by the Contract 3404 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of Integrated Airport Control System and conversion of the existing Integrated Airport Centre (IAC) into a Back-up IAC for the operation of interim Two-Runway System and Three-Runway System. The major construction activities include without limitation the following: Cabling works System configuration and programming works; Set up Control and Communication system; Decommissioning works; and All associated testing and commissioning works.

Contract No.	Contract Title	Contractor	Key Construction Activities
3405	Third Runway Concourse Foundation and Substructure Works	China Road and Bridge Corporation - Bachy Soletanche Group Limited - LT Sambo Co., Ltd. Joint Venture	The works covered by the Contract 3405 comprise without limitation the following: • Piled foundation works; • Basement and tunnel structure works; • Associated internal reinforced concrete structures; • Backfilling and compaction of works area; and • Associated testing and temporary works.
3408	Third Runway Concourse and Apron Works	Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture	The works covered by the Contract 3408 comprise the design and construction of the Third Runway Concourse (TRC), the TRC Apron, two cross-field taxiways, Ancillary Buildings, specific section of the Eastern Vehicular Tunnel (EVT), and the associated infrastructure, testing, and commissioning works.
3508	Terminal 2 Expansion Works	Gammon Engineering and Construction Co., Ltd	The works covered by the Contract 3508 comprise the construction of T2, North Annex Building (NAB) and South Annex Building (SAB) with interconnecting bridges, landside transport infrastructure including viaducts and at grade roads, underground utility services, one sewage pumping station with the associated electrical building, footbridges, external works and modification works to existing facilities. The major construction activities include without limitation the following: • Superstructure, interior landscaping, building services and airport system of T2, NAB, SAB and associated footbridges; • Additions and Alteration (A&A) works of the existing Airport World Trade Centre (AWTC); • Modification of the existing APM and BHS tunnels; • External works and road networks around T2; and • Utilities.
3601	New Automated People Mover System (TRC Line)	CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture	The works covered by the Contract 3601 comprise the initial phase of the Automated People Mover (APM) system connecting the Third Runway Concourse (TRC) and the APM Interchange Station in the modified T2, and extension of the new APM system into the new APM Depot east of T2. The major construction activities include without limitation the following: • New 3-guideway APM system between TRC and T2; • Extension of the TRC Line into the new APM Depot;

Contract No.	Contract Title	Contractor	Key Construction Activities
			 APM associated sub-systems (communications, signalling, etc.) Associated civil works; and All associated testing, commissioning works.
3602	Existing APM System Modification Works	Niigata Transys Co., Ltd.	The works covered by the Contract 3602 comprise the detailed design, supply, manufacture, fabrication, implementation, testing and commissioning of the following modification works of the existing APM systems: • Modification of existing APM depot and APM cars; • Modification of existing T1 & T2 tunnels; and • Preparation of new APM depot.
3603	3RS Baggage Handling System	Vanderlande Industries Hong Kong Limited and Shun Hing Systems Integration Company Limited	The works covered by the Contract 3603 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of the high-speed baggage handling system.
3723	Eastern Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture	The works covered by the Contract 3723 comprise the design and construction of support facilities, including site office, sewage treatment facility, canteen, and centralised power supply building. The major construction activities include without limitation the following: Construction of support facilities; Foundation, structural and superstructure works; Sewage pipe network and connection works; and Building services works.
3728	Minor Site Works	Shun Yuen Construction Company Limited	The works to be executed by the Contract 3728 comprise minor works within the Airside and Landside areas of the existing airport island to support the Project.
3733	Emergency Repair Service	Wing Hing Construction Co., Ltd.	The works to be executed by the Contract 3733 comprise the provision of emergency repair service for Three Runway System (3RS) Project construction. The major construction activities include without limitation the following: • Construction of support facilities; • Building services works; • Security fencing and hoarding; and • Ground pavement works.

Contract No.	Contract Title	Contractor	Key Construction Activities
3801	APM and BHS Tunnels on Existing Airport Island	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3801 comprise the construction of the APM and Baggage Handling System (BHS) tunnels on existing airport island. The major construction activities include without limitation the following: Construction of APM and BHS tunnels; Construction of ventilation building and associated infrastructure; and Construction, testing and commissioning of sewerage pumping station; and Civil and structural engineering works.
3802	APM and BHS Tunnels and Related Works	Gammon Construction Limited	The works covered by the Contract 3802 comprise the construction of the APM and BHS tunnels on existing airport island. The major construction activities include without limitation the following: • Construction of APM/ BHS Tunnels; • Construction of ancillary buildings/ facilities; • Building services and airport systems; • Infrastructure Works; • Underground utilities and services; and • All associated testing and commissioning works.
3804	East and Landside Fire Stations	Beijing Urban Construction Group Construction Limited - Beijing Urban Construction International Construction Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture	The works covered by the Contract 3804 comprise the construction of the East Fire Station (EFS) and Landside Fire Station (LFS), which are three-storey and four storey facilities for supporting firefighting and emergency rescue services at the airport. The major construction activities include without limitation the following: Construction of EFS and LFS; Building services and airport systems; Handling, treatment and reuse of the marine deposit, contaminated mud and treated soil; All associated testing and commissioning works.
3805	New Airport District Police Operational Base	Chinney Construction Co., Ltd.	The works covered by the Contract 3805 comprise the construction of the New Airport District Police Operational Base (NPOB), which is a seven-storey high building for provision of operational facilities such as a forward holding area and dog kennel for counter terrorism related units, training facilities such as a firing range and a tactics training centre and offices, facilities for district

Contract No.	Contract Title	Contractor	Key Construction Activities
			operation and ancillary facilities. The major construction activities include without limitation the following: • Piled foundation works; • Handling, treatment and reuse of the marine deposit, contaminated mud and treated soil; • Associated testing and commissioning works; and • Associated temporary works.
3901A	Concrete Batching Facility	K. Wah Concrete Company Limited	The works covered by the Contract 3901A comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following: Supply of all equipment for the installation of the Facility to the Site; and Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.
3901B	Concrete Batching Facility	Gammon Construction Limited	The works covered by the Contract 3901B comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following: Supply of all equipment for the installation of Facility to the Site; and Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.
3913	Asphalt Batching Plant	Sinohydro Corporation Limited, Powerchina Airport Construction Company Limited, and Rock-One Engineering Company Limited Joint Venture	The works covered the Contract 3913 comprise the takeover of existing asphalt batching facilities at the Western Support Area, the provision of all other associated facilities, plant and equipment such as bitumen and polymer modified binder blending units (collectively called the Facility) and the operation and maintenance of the Facility. The major construction activities include without limitation the following: Supply of licenced products required for asphalt pavement work; Decommissioning and returning works; and All associated testing and commissioning works.
	132 kV Cable	CLP Power Hong Kong Limited / Kum Shing (K.F.)	The works covered the 132kV Cable layering at the Project Site.

Contract No.	Contract Title	Contractor	Key Construction Activities
		Construction Company	
		Limited	

Appendix B. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase



Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	Dust Control Measures ■ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	I
5.2.6.3	2.1	-	 Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling. 	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			 Exposed Earth Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	Within construction site / Duration of the construction phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	, , , , , , , , , , , , , , , , , , , ,
			Loading, Unloading or Transfer of Dusty Materials	Within construction	1
			• All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	site / Duration of the construction phase	
			Debris Handling	Within construction	1
			Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and	site / Duration of the construction phase	
			■ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.		
			Transport of Dusty Materials	Within construction	1
			Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	site / Duration of the construction phase	
			Wheel washing	Within construction	1
			 Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	site / Duration of the construction phase	
			Use of vehicles	Within construction	1
			The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site;	site / Duration of the construction phase	
			• Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and		
			• Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.		
			Site hoarding	Within construction	1
			• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	site / Duration of the construction phase	
5.2.6.5	2.1	-	Best Practices for Concrete Batching Plant	Within Concrete	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:	Batching Plant / Duration of the construction phase	
			Cement and other dusty materials		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit;		
			• Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high-level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will operate, and after 1 minute or less the material filling line will be closed;		
			 Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit; 		
			 Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and 		
			 Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery. 		
			Other raw materials	Within Concrete	1
			 The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rock, sand, stone aggregate, shall be carried out in such a manner to prevent or minimize dust emissions; 	Batching Plant / Duration of the construction phase	
			• The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stockpiles and material discharge points;		
			 All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; 		
			• The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance;		
			 All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; 		
			 Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; 		
			 Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; 		
			 Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			■ The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side;		
			• Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	1
			Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented:	Batching Plant / Duration of the	
			(a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and	construction phase	
			(b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit.		
			The loading bay shall be totally enclosed during the loading process.		
			Vehicles	Within Concrete	1
			 All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and 	Batching Plant / Duration of the	
			 All access and route roads within the premises shall be paved and adequately wetted. 	construction phase	
			Housekeeping	Within Concrete	1
			A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Asphaltic	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include:	Concrete Plant / Duration of the construction phase	
			Design of Chimney		
			• The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater;		
			■ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures						
				Timing of completion of measures	Implemented?						
			■ The flue gas exit temperature shall not be less than the acid dew point; and								
			 Release of the chimney shall be directed vertically upwards and not be restricted or deflected. 								
			Cold feed side	Within Asphaltic	1						
			 The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area; 	Concrete Plant / Duration of the							
			• Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping;	construction phase							
			■ The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping;								
			 Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; 								
			 Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; 								
			 All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and 								
			 All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures. 								
			Hot feed side	Within Asphaltic	1						
			• The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values;	Concrete Plant / Duration of the construction phase							
			• The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value;								
			 All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; 								
			 Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages; 								
			• All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and								



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
			 Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units). 	of measures	
			Material transportation	Within Asphaltic	1
			The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions;	Concrete Plant / Duration of the construction phase	
			 Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and 		
			 Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers. 		
			Control of emissions from bitumen decanting	Within Asphaltic	1
			• The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note;	Concrete Plant / Duration of the	
			 Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; 	construction phase	
			 Proper chimney for the discharge of bitumen fumes shall be provided at high level; 		
			The emission of bitumen fumes shall not exceed the required emission limit; and		
			• The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.		
			Liquid fuel	Within Asphaltic	I
			• The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Concrete Plant / Duration of the construction phase	
			Housekeeping	Within Asphaltic	ı
			A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Concrete Plant / Duration of the construction phase	
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Rock Crushing	N/A as there wa
	·		The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:	Plant / Duration of the construction phase	no rock crushing plant at this stag
			Crushers		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			• The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter;		
			• The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping;		
			 Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and 		
			 Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. 		
			Vibratory screens and grizzlies	Within Rock Crushing	N/A as there was
			• All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and	Plant / Duration of the construction phase	no rock crushing plant at this stage
			 All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas. 		
			Belt conveyors	Within Rock Crushing	N/A as there was
			 Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; 	Plant / Duration of the construction phase	no rock crushing plant at this stage
			• Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and		
			Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.		
			Storage piles and bins	Within Rock Crushing	N/A as there was
			 Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. 	Plant / Duration of the construction phase	no rock crushing plant at this stage



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; 		
			 All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or 		
			• The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls; and		
			• Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.		
			Rock drilling equipment	Within Rock Crushing	N/A as there was
			 Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities. 	Plant / Duration of the construction phase	no rock crushing plant at this stage
			Hazard to Human Life - Construction Phase		
Table 6.40	3.2	-	 Precautionary measures should be established to request barges to move away during typhoons. 	Construction Site / Construction Period	1
Table 6.40	3.2	-	• An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	1
Table 6.40	3.2	-	 Location of all existing hydrant networks should be clearly identified prior to any construction works. 	Construction Site / Construction Period	I
			Noise Impact – Construction Phase		
7.5.6	4.3	-	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Within the Project site / During construction phase / Prior to	1
			 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	commencement of operation	
			 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; 		
			plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;		
			 mobile plant should be sited as far away from NSRs as possible; and 		
			 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
7.5.6	4.3	-	Adoption of QPME QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	 Use of Movable Noise Barriers Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs. 	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	 Use of Noise Enclosure/ Acoustic Shed Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator. 	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		
8.8.1.2 and 8.8.1.3	5.1	2.26	Marine Construction Activities General Measures to be Applied to All Works Areas Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; Use of Lean Material Overboard (LMOB) systems shall be prohibited; Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved;	Within construction site / Duration of the construction phase	C – Completed in Apr 2022
			 Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; All vessels shall be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Specific Measures to be Applied to All Works Areas The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; 	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			 A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document; 		
			 An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities; 		C – Completed in May 2018
			 Closed grab dredger shall be used to excavate marine sediment; Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and 		C – Marine filling works completed in March 2023
				_	(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The Silt Curtain Deployment Plan shall be implemented.		I – For C7a and localised silt curtains
					(All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	_	(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			 Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and 		I – For C7a
				_	C – Completed in Dec 2021 for C8



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
				of measures	*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains
					(All enhanced silt curtain removed since March 2023)
			 Specific Measures to be Applied to Land Formation Activities during Marine Filling Works Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured 	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			to minimise SS release during ebb tides;		(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			 Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; 		C – Marine filling works completed in March 2023
					(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			 Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and 		I – For C7a
					C – Completed in Dec 2021 for C8
					(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			■ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains
					(All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion	Within construction	N/A – the field
			 Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping at Sea Ordinance (DASO) permit conditions; and 	site / Duration of the construction phase	joint excavation works for the submarine cable
			 Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure. 		diversion will no longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	N/A – no marine-
			• Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	northern seawall / Duration of the construction phase	based seawall modification works undertaken after land formation.
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls	Within construction	I
			 During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations. 	site / Duration of the construction phase	
8.8.1.6	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons	Within construction	C – For approach
8.8.1.7			Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	site / Duration of the construction phase	lights
					N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			For construction of the eastern approach lights at the CMPs	Of filedSures	C – Completed in
			 Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; 		Oct 2021
			 Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; 		
			 The excavated materials shall be removed using a closed grab within the steel casings; 		
			 No discharge of the cement mixed materials into the marine environment will be allowed; and 		
			Excavated materials shall be treated and reused on-site.		
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	Within construction site / Duration of the construction phase	
			• Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		ı
			Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;	•	ı
			• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;	•	ı
			• Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		ı
			■ In the event that contaminated groundwater is identified at excavation areas, this should be treated onsite using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
			 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; 		I
			 Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and 		I
			Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce	Within construction	1
			Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	site / During construction phase	
8.8.1.10	5.1		General Construction Activities	Within construction	1
8.8.1.11			 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and 	site / During construction phase	
			• Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12	5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	C – Completed in
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During construction phase	Jan 2019
			A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau;	construction phase	
			■ No bulk storage of chemicals shall be permitted; and		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			• A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During	C – Completed in Jan 2019
			 During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and 	construction phase	
			 Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 		
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			• The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			 Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works; 	-	ı
			 Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work; 	-	I
			 Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and 	-	I
			■ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	1
			 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; 	Construction Phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			■ Training of site personnel in proper waste management and chemical waste handling procedures;		
			 Provision of sufficient waste disposal points and regular collection for disposal; 		
			 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; 		
			 Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; 		
			 All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; 		
			 C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; 		
			■ The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and		
			To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.		
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include:	Project Site Area /	1
			 Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; 	Construction Phase	
			 Adoption of repetitive design to allow reuse of formworks as far as practicable; 		
			 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 		
			 Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; 		
			 Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; 		
			 Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and 		
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
10.5.1.5	7.1		Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.5	7.1	-	Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	1
10.5.1.6	7.1	-	A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	I
			 The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; 	- - -	1
			 All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; 		1
			• Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		1
			 Treated and untreated sediment should be clearly separated and stored separately; and 		1
			 Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge. 		I
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:	Project Site Area / Construction Phase	N/A – the field joint excavation works for the
			 Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; 		submarine cable
		du	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and 		diversion will no longer be conducted anymore
			 Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 		
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:	Project Site Area / Construction Phase	1
			 Good quality containers compatible with the chemical wastes should be used; 		
			Incompatible chemicals should be stored separately;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and 		
			■ The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.		
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey • Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			 Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas. 	-	C – Completed in Jan 2018
			 After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room. 	_	I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.	-	N/A as no remediation was required.
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):	Project Site Area / Construction Phase	N/A as no contaminated soil was found.



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented:
			 To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 		
			 Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; 		
			 Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 		
			 The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 		
			 Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 		
			 Truck bodies and tailgates should be sealed to prevent any discharge; 		
			 Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; 		
			 Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; 		
			 Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and 		
			 Maintain records of waste generation and disposal quantities and disposal arrangements. 		
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	Pre-construction Egretry Survey	Breeding season (April	C – Completed in
			 Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry. 	- July) prior to commencement of HDD drilling works at HKIA	Jan 2019
12.7.2.3	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry	During construction	C – Completed in
and 12.7.2.6			• The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry;	phase at Sheung Sha Chau Island	Jan 2019
			• In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and		
			The containment pit at the daylighting location shall be covered or camouflaged.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.5	9.1	2.30	Preservation of Nesting Vegetation The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.7.2.4 and 12.7.2.6	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.10.1.1	9.3	-	Ecological Monitoring During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.	at Sheung Sha Chau Island	C – Completed in Jan 2019
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	■ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	C – Completed in Jan 2016
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	 Minimisation of Land Formation Area Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population. 	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; 	-	C – Completed in Apr 2022
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 	_	C – Completed in Oct 2021 for new approach lights
			 Avoid bored piling during CWD peak calving season (Mar to Jun); 		N/A for marker beacons as



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
					HKIAAA Marker Beacons would be replaced by buoys
			Prohibition of underwater percussive piling; and	_	1
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 		C – Completed in Jan 2019 for HDD works
13.11.2.1	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 13.11.2.7			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	1
			 Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); 		C – Completed in Apr 2022
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 		C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	All works area during	1
			 A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			Fines for infractions should be implemented; and		
			Unscheduled, on-site audits shall be implemented.		
13.11.1.13	-	-	 Good Construction Site Practices Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; Keep the number of working or stationary vessels present on-site to the minimum anytime; and Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	ı



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.5.4 to 13.11.5.13	10.3.1	-	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	 Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 	Marine waters around land formation works area during construction phase	ı
			 A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and 		C – Completed in Apr 2022
			■ A DEZ would also be implemented during bored piling work but as a precautionary measure only.	_	C – Completed in Oct 2021 for the bored piling work of New approach lights
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.	Around coastal works area during construction phase	I



EIA Ref.	EM&A EP Environmental Protection Measures Ref. Condition		Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^	
13.11.5.20	10.6.1	2.29	 Spill Response Plan An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage. 	Construction phase	ı
13.11.5.21 to 13.11.5.23	10.6.1	-	Construction Vessel Speed Limits and Skipper Training A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report). Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing. Fisheries Impact – Construction Phase	All areas north and west of Lantau Island during construction phase	I
14.9.1.2 to 14.9.1.5	-		Minimisation of Land Formation Area • Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; 		C – Completed in Apr 2022
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 	•	C – Completed in Oct 2021 for new approach lights
					N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 		C – Completed in Jan 2019 for HDD works
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during	I
			 A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			■ Fines for infractions should be implemented; and		
			 Unscheduled, on-site audits shall be implemented. 		
14.9.1.12	-		Good Construction Site Practices	All works area during	I
			 Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; 	the construction phase	
			 Keep the number of working or stationary vessels present on-site to the minimum anytime; and 		
			 Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 		
14.9.1.13	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	I
to 14.9.1.18			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	
			Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);	-	C – Completed in Apr 2022
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker
				_	Beacons would be replaced by buoys
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	-	C – Completed on Jan 2019 for HDD work
			Landscape and Visual Impact – Construction Phase		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works;	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works;	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works;	I
				Upon handover and completion of works. – may be disassembled in phases.	
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	I
				Upon handover and completion of works. –	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures	
				Timing of completion of measures	Implemented?^	
				may be disassembled in phases.		
Table 15.6	12.3	-	Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to	All existing trees to be retained;	1	
				Upon handover and completion of works.		
Table 15.6	12.3	-	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works;	I	
				Upon handover and completion of works.		
Table 15.6	12.3	-	CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works;	I	
				Upon handover and completion of works.		
			Cultural Heritage Impact – Construction Phase			
			Not applicable to the construction stage of this project.			
			Health Impact – Aircraft Emissions			
			Not applicable to the construction stage of this project.			
			Health Impact – Aircraft Noise			
			Not applicable to the construction stage of this project.			

Notes:

[&]quot; - " For items denoted as " - " provided under the columns of EM&A Ref. or EP Condition, environmental protection measures should be referred to the relevant paragraph(s) / table(s) in the approved EIA Report.

[&]quot;I" Implemented and on-going where applicable.

[&]quot; N/A" Not applicable to the construction works implemented during the reporting month. "A" Checked by ET through site inspection and record provided by the Contractor.

[&]quot;C" Construction works completed.

Appendix C. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Oct-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
·	_	Site Inspection	Site Inspection	Site Inspection	Site Inspection	•
			AR1A, AR2	CWD Survey (Land-based) NM4, NM6	CWD Survey (Vessel)	
		WQ General	NM1A, NM5	WQ General		
		1	5:27	mid-ebb: 16:38		WQ General ^[1] mid-ebb: 6:36
		mid-flood:	9:53	mid-flood: 12:02		mid-flood: 19:24
8	9	10	11	12	13	14
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
		AR1A, AR2	CWD Survey (Land-based)	CWD Survey (Vessel)	CWD Survey (Vessel) NM4, NM6	
		NM1A, NM5 WQ General		WQ General	,	WQ General
		mid-ebb: 10	D:30 7:46	mid-ebb: 11:48		mid-ebb: 12:53
15	16	mid-flood: 17	18	mid-flood: 18:18 19	20	mid-flood: 6:44
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
	CWD Survey (Vessel)	CWD Survey (Vessel)			CWD Survey (Vessel)	
	AR1A, AR2 NM1A, NM5			NM4, NM6		AR1A, AR2
		WQ General mid-ebb: 14	4:30	WQ General mid-ebb: 15:50		WQ General mid-ebb: 4:51
			4:30 B:44	mid-flood: 15:50		mid-ebb: 4:51 mid-flood: 17:17
22	23	24	25	26	27	28
		Site Inspection	Site Inspection	Site Inspection	Site Inspection	
				CWD Survey (Vessel) NM4, NM6	CWD Survey (Vessel) AR1A, AR2	
		WO Comercia		WO Company	NM1A, NM5	WO Comment
		WQ General mid-ebb:	8:51	WQ General mid-ebb: 10:53		WQ General mid-ebb: 12:24
		mid-flood: 16	6:40	mid-flood: 17:41		mid-flood: 18:29
29	30 Site Inspection	31 Site Inspection				
		WQ General mid-ebb: 14	4:29			
			9:03			
		Notes:				
		CWD - Chinese White Dolphin	NM4A/AD4A Man Tung Bood Book			
		Air quality and Noise Monitoring Station	NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Pr NM5/AR2 - Village House, Tin Sum	imary School		
		WQ - Water Quality	NM6 - House No. 1, Sha Lo Wan			
			flood tides on 7 October 2023 was cancelle	ed due to Strong Wind Signal No. 3 in force.		

Tentative Monitoring Schedule of Next Reporting Period

Nov-23

			1101 20			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Site Inspection	2 Site Inspection	3 Site Inspection	4
				AR1A, AR2 NM1A, NM5	NM4, NM6	
5	6 Site Inspection	7 Site Inspection	8 Site Inspection	9 Site Inspection	10 Site Inspection	11
	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Land-based) AR1A, AR2 NM1A, NM5	CWD Survey (Vessel)	CWD Survey (Vessel) NM4, NM6	
12	13 Site Inspection	14 Site Inspection	15 Site Inspection	16 Site Inspection	17 Site Inspection	18
	CWD Survey (Vessel)	CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	CWD Survey (Vessel) NM4, NM6	CWD Survey (Land-based)		
19	20 Site Inspection	21 Site Inspection	Site Inspection	23 Site Inspection	24 Site Inspection	25
	AR1A, AR2 NM1A, NM5				NM4, NM6	AR1A, AR2
26	27 Site Inspection	28 Site Inspection	29 Site Inspection	30 Site Inspection		
				NM4, NM6		
		Notes: Contract Number - Site Inspection CWD - Chinese White Dolphin Air quality and Noise Monitoring Station	NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Prima NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan	ary School		

Tentative Monitoring Schedule of Post-construction Phase Water Quality Monitoring

Nov 2023

				020		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
		Post-Construction V mid-ebb: mid-flood:	VQM 13:38 8:06	Post-Construction V mid-elbo: mid-flood:	VQM 14:59 9:44	Post-Construction WQM mid-ebb: 3:49 mid-flood: 16:12
19	20	21	22	23	24	25
		Post-Construction V mid-ebb: mid-flood:	VQM 6:53 15:09	Post-Construction V mid-ebb: mid-flood:	VQM 9:27 16:21	Post-Construction WQM mid-ebb: 11:17 mid-flood: 17:15
26	27	28	29	30		
		Post-Construction V mid-ebb: mid-flood:	VQM 13:33 8:18	Post-Construction V mid-ebb: mid-flood:	VQM 14:43 9:52	
		Notes:		•		
		Post-Construction WQM	Parameters (for all): DO,	I7, IM2, IM3, IM4, IM5, IM6, IM8, IM9, IM12, II pH, Temperature, Salinity, Turbidity, SS SR2, IM1-IM12): Total Alkalinity, Heavy metals		SR6, SR7, SR8

Dec 2023

C	March		Wales		Faith	Cotton la
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday 2
					1	2
3	4	5	6	7	8	Post-Construction WQM mid-ebb: 3:44 mid-flood: 16:02 9
3	-	Post-Construction WQM mid-ebb: 5:48		Post-Construction WQM mid-ebb: 8:05	ŭ	Post-Construction WQM mid-ebb: 10:21
10	44	mid-flood: 18:20		mid-flood: 15:27	45	mid-flood: 16:14
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
24		Notes: Post-Construction WQM	C1, C2, C3, SR2, IM1, IM7, IM2, IM3, IM4	4, IM5, IM6, IM8, IM9, IM12, IM10, IM11, SR	1A, SR3, SR4A, SR5A, SR6, SR7, SR8	
			Parameters (for all): DO, pH, Temperaturn Parameters (for C1-C3, SR2, IM1-IM12):	e, Salinity, Turbidity, SS		

Appendix D. Monitoring Results

Mott MacDonald Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 94 (For October 2023)

Air Quality Monitoring Results

1-hour TSP Results

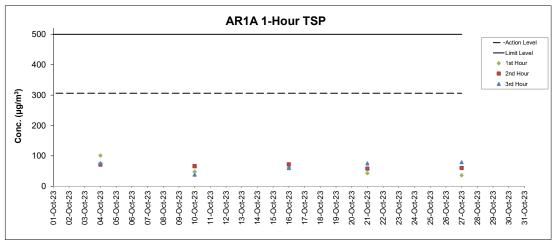
Station: AR1A- Man Tung Road Park

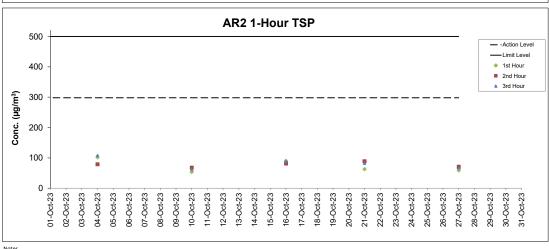
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
			, ,	(deg)	- ··· · · · · · · · · · /	(μg/m³)	(μg/m³)
4-Oct-23	8:05	Sunny	1.7	311	101	306	500
4-Oct-23	9:05	Sunny	3.3	300	71	306	500
4-Oct-23	10:05	Sunny	2.8	317	76	306	500
10-Oct-23	10:31	Sunny	5.0	40	48	306	500
10-Oct-23	11:31	Sunny	5.6	2	66	306	500
10-Oct-23	12:31	Sunny	2.5	27	38	306	500
16-Oct-23	8:17	Sunny	4.4	38	61	306	500
16-Oct-23	9:17	Sunny	4.7	35	72	306	500
16-Oct-23	10:17	Sunny	4.2	46	60	306	500
21-Oct-23	8:19	Sunny	5.3	39	43	306	500
21-Oct-23	9:19	Sunny	5.0	36	58	306	500
21-Oct-23	10:19	Sunny	3.1	25	75	306	500
27-Oct-23	8:07	Sunny	4.2	85	36	306	500
27-Oct-23	9:07	Sunny	3.9	88	60	306	500
27-Oct-23	10:07	Sunny	4.2	64	79	306	500

1-hour TSP Results

Station: AR2- Village House, Tin Sum

, , , , , , , , , , , , , , , , , , ,	,	, will					
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (µg/m³)	Action Level	Limit Level
				(deg)	- 11-0/ /	(μg/m³)	$(\mu g/m^3)$
4-Oct-23	12:56	Sunny	3.6	310	102	298	500
4-Oct-23	13:56	Sunny	3.3	Variable	79	298	500
4-Oct-23	14:56	Sunny	3.1	314	108	298	500
10-Oct-23	14:27	Sunny	3.1	28	54	298	500
10-Oct-23	15:27	Sunny	5.3	12	68	298	500
10-Oct-23	16:27	Sunny	3.3	44	63	298	500
16-Oct-23	12:56	Sunny	5.6	89	90	298	500
16-Oct-23	13:56	Sunny	4.4	60	82	298	500
16-Oct-23	14:56	Sunny	6.4	104	89	298	500
21-Oct-23	12:35	Sunny	5.3	43	63	298	500
21-Oct-23	13:35	Sunny	6.1	48	89	298	500
21-Oct-23	14:35	Sunny	4.2	44	82	298	500
27-Oct-23	12:11	Sunny	2.5	Variable	59	298	500
27-Oct-23	13:11	Sunny	4.4	263	71	298	500
27-Oct-23	14:11	Sunny	4.7	270	67	298	500





- Indicate In Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

 2. Weather conditions during monitoring are presented in the data tables above.

 3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured	Measured	Ι
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
4-Oct-23	Sunny	8:56	63.2	60.5	
4-Oct-23	Sunny	9:01	63.9	60.8	
4-Oct-23	Sunny	9:06	63.9	61.0	66
4-Oct-23	Sunny	9:11	64.2	61.1	7 00
4-Oct-23	Sunny	9:16	63.8	60.8	
4-Oct-23	Sunny	9:21	64.4	61.2	
10-Oct-23	Sunny	10:30	63.5	58.9	
10-Oct-23	Sunny	10:35	62.7	59.0	
10-Oct-23	Sunny	10:40	63.3	59.6	65
10-Oct-23	Sunny	10:45	62.9	59.4	7 65
10-Oct-23	Sunny	10:50	63.1	59.3	
10-Oct-23	Sunny	10:55	63.4	59.3	
16-Oct-23	Sunny	8:24	64.1	60.2	
16-Oct-23	Sunny	8:29	64.5	60.3	
16-Oct-23	Sunny	8:34	63.5	60.3	67
16-Oct-23	Sunny	8:39	64.3	60.0] 0/
16-Oct-23	Sunny	8:44	62.5	58.9	
16-Oct-23	Sunny	8:49	62.8	59.5	
27-Oct-23	Sunny	9:28	63.2	59.2	
27-Oct-23	Sunny	9:33	63.5	59.2	
27-Oct-23	Sunny	9:38	62.1	58.6	64
27-Oct-23	Sunny	9:43	62.3	58.0	7 04
27-Oct-23	Sunny	9:48	62.5	58.6	
27-Oct-23	Sunny	9:53	62.6	59.2	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	Ι
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
5-Oct-23	Overcast	13:42	61.8	58.4	
5-Oct-23	Overcast	13:47	62.7	58.6	
5-Oct-23	Overcast	13:52	63.0	58.9	64
5-Oct-23	Overcast	13:57	62.2	58.8	04
5-Oct-23	Overcast	14:02	61.6	58.3	
5-Oct-23	Overcast	14:07	62.1	59.3	
13-Oct-23	Overcast	14:14	61.2	56.4	
13-Oct-23	Overcast	14:19	61.5	57.4	
13-Oct-23	Overcast	14:24	63.0	57.7	65
13-Oct-23	Overcast	14:29	63.3	60.6] 03
13-Oct-23	Overcast	14:34	65.2	63.1	
13-Oct-23	Overcast	14:39	65.2	63.5	
19-Oct-23	Overcast	14:37	62.6	58.7	
19-Oct-23	Overcast	14:42	61.8	59.1	
19-Oct-23	Overcast	14:47	61.7	59.2	64
19-Oct-23	Overcast	14:52	63.2	59.4	04
19-Oct-23	Overcast	14:57	63.0	59.1	
19-Oct-23	Overcast	15:02	63.0	58.4	
26-Oct-23	Sunny	14:13	59.8	56.7	
26-Oct-23	Sunny	14:18	60.9	57.2	
26-Oct-23	Sunny	14:23	60.7	56.8	62
26-Oct-23	Sunny	14:28	61.3	56.6	32
26-Oct-23	Sunny	14:33	60.1	56.9	
26-Oct-23	Sunny	14:38	61.7	58.0	

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

Noise Measurement Results

Station: NM5- Village House. Tin Sum

D-1-	144 15		Measured	Measured	
Date	Weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
4-Oct-23	Sunny	11:37	63.5	60.5	
4-Oct-23	Sunny	11:42	63.7	60.8	
4-Oct-23	Sunny	11:47	63.5	59.7	64*
4-Oct-23	Sunny	11:52	63.1	60.0	041
4-Oct-23	Sunny	11:57	63.3	60.8	
4-Oct-23	Sunny	12:02	63.7	60.7	
10-Oct-23	Sunny	14:15	62.8	59.0	
10-Oct-23	Sunny	14:20	62.8	59.2	
10-Oct-23	Sunny	14:25	63.2	59.7	62*
10-Oct-23	Sunny	14:30	63.3	59.3	02
10-Oct-23	Sunny	14:35	64.3	59.0	
10-Oct-23	Sunny	14:40	62.7	59.2	
16-Oct-23	Sunny	11:57	54.3	47.0	
16-Oct-23	Sunny	12:02	56.1	48.7	
16-Oct-23	Sunny	12:07	51.5	48.0	55
16-Oct-23	Sunny	12:12	55.1	47.8] 33
16-Oct-23	Sunny	12:17	52.3	46.5	
16-Oct-23	Sunny	12:22	55.1	48.6	
27-Oct-23	Sunny	11:16	56.6	50.9	
27-Oct-23	Sunny	11:21	57.5	51.0	
27-Oct-23	Sunny	11:26	55.2	52.0	58
27-Oct-23	Sunny	11:31	54.7	50.8	36
27-Oct-23	Sunny	11:36	54.8	51.5	
27-Oct-23	Sunny	11:41	55.5	51.7	

Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured	Measured	Ι
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
5-Oct-23	Overcast	15:48	71.1	54.3	
5-Oct-23	Overcast	15:53	64.8	54.4	
5-Oct-23	Overcast	15:58	68.3	56.2	62*
5-Oct-23	Overcast	16:03	74.0	56.8	02
5-Oct-23	Overcast	16:08	68.0	59.0	
5-Oct-23	Overcast	16:13	69.6	56.3	
13-Oct-23	Overcast	15:40	66.3	49.9	
13-Oct-23	Overcast	15:45	68.8	47.9	
13-Oct-23	Overcast	15:50	73.9	47.3	62*
13-Oct-23	Overcast	15:55	70.7	47.8	02
13-Oct-23	Overcast	16:00	64.4	47.8	
13-Oct-23	Overcast	16:05	68.0	47.5	
19-Oct-23	Overcast	15:41	58.4	51.5	
19-Oct-23	Overcast	15:46	66.2	54.2	
19-Oct-23	Overcast	15:51	61.2	52.0	63
19-Oct-23	Overcast	15:56	64.1	54.4	03
19-Oct-23	Overcast	16:01	59.7	50.2	
19-Oct-23	Overcast	16:06	55.2	45.8	
26-Oct-23	Sunny	15:44	72.2	47.5	
26-Oct-23	Sunny	15:49	68.8	48.3	
26-Oct-23	Sunny	15:54	68.8	48.3	66*
26-Oct-23	Sunny	15:59	55.2	46.8	00
26-Oct-23	Sunny	16:04	71.9	48.0	
26-Oct-23	Sunny	16:09	73.5	49.8	

Remarks:

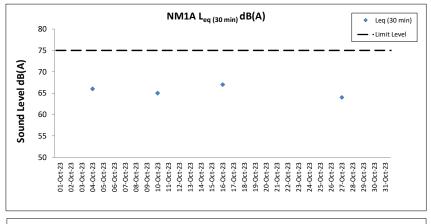
(*) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

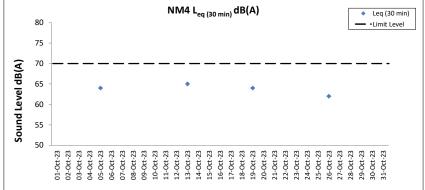
(*) The measurement result was corrected with reference to the baseline monitoring levels.

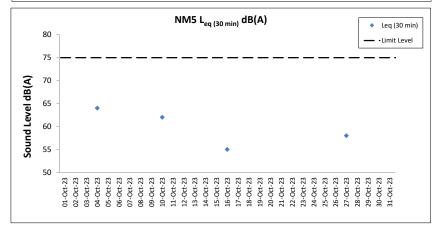
Remarks:

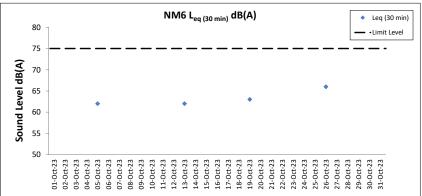
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

(*) The measurement result was corrected with reference to the baseline monitoring levels.









- 1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
- 2. Weather conditions during monitoring are presented in the data tables above.
- ${\bf 3.\ QA/QC\ requirements\ as\ stipulated\ in\ the\ EM\&A\ Manual\ were\ carried\ out\ during\ measurement.}$



Water Quality Monitoring Results on 03 October 23 during Mid-Ebb Tide

water Qua	ity wonit	Jilly Kesu	112 011		03 October 23	auring Mia-	יבטט וועפ	;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	h (m)	Current Speed	Current	Water Te	emperature (°C)	Ŀ	Н	Salin	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	ii (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	207	29.5	29.5	8.1	8.1	26.7	26.7	92.9	92.9	6.1		6.3		8			
					Surface	1.0	0.3	211	29.5	29.5	8.1	0.1	26.7	20.7	92.8	92.9	6.1	5.9	6.1	1	7			
C1	Cloudy	Moderate	15:35	8.0	Middle	4.0	0.3	221	29.2	29.2	8.1	8.1	29.6	29.6	86.6	86.5	5.6	5.9	10.5	8.3	7	7	815619	804244
Ci	Cloudy	Moderate	15.55	6.0	Middle	4.0	0.3	215	29.2	29.2	8.1	0.1	29.6	29.0	86.3	00.5	5.6		10.1	0.3	8	,	013019	004244
					Bottom	7.0	0.2	220	29.1	29.1	8.1	8.1	30.0	29.9	83.5 83.2	83.4	5.4	5.4	8.4		6			
					Bottom	7.0	0.2	215	29.1	29.1	8.1	0.1	29.9	25.5	83.2	03.4	5.4	3.4	8.8		5			
					Surface	1.0	0.0	355	29.8	29.8	8.0	8.0	24.8	24.8	83.0	82.9	5.5		2.7		5			
					Surface	1.0	0.1	348	29.8	29.0	8.0	0.0	24.8	24.0	82.7	02.9	5.5	5.4	2.9		5			
C2	Cloudy	Moderate	13:53	12.5	Middle	6.3	0.1	6	29.6	29.6	8.0	8.0	25.6	25.7	80.8	80.8	5.3	3.4	6.8	6.9	5	6	825667	806935
02	Cloudy	Moderate	13.33	12.5	Middle	6.3	0.1	11	29.6	29.0	8.0	0.0	25.7	23.1		00.0	5.3		6.4	0.9	6	U	023007	800933
					Bottom	11.5	0.1	351	29.5	29.5	8.0	8.0	27.1	27.1	80.6	80.6	5.3	5.3	11.0		7			
					Bottom	11.5	0.1	353	29.5	29.5	8.0	0.0	27.0	21.1	80.6	00.0	5.3	5.5	11.5		6			
					Surface	1.0	0.2	90	26.0	26.0	8.0	8.0	29.5	29.5	93.4	93.5	6.4		6.5		4			
					Surface	1.0	0.2	87	26.0	20.0	8.0	0.0	29.5	25.5	93.5	93.3	6.4	6.5	6.5		3			
C3	Fine	Moderate	14:40	9.4	Middle	4.7	0.2	100	26.0	26.0	8.0	8.0	29.5	29.5	94.5 94.5	94.5	6.5	0.5	7.4	7.3	3	4	822090	817782
03	Tille	Moderate	14.40	5.4	Middle	4.7	0.1	101	26.0	20.0	8.0	0.0	29.5	25.5		94.5	6.5		7.4	7.3	4	4	022090	017702
					Bottom	8.4	0.2	80	26.0	26.0	8.0	8.0	29.5	29.5	95.5 95.8	95.7	6.5	6.6	8.2		4			
					Bottom	8.4	0.2	73	26.0	20.0	8.0	0.0	29.5	20.0	95.8	33.7	6.6	0.0	8.2		4			
					Surface	1.0	0.2	186	29.3	29.3	8.1	8.1	28.1	28.1	91.4	91.3	6.0		5.9		6			
					Guriace	1.0	0.2	183	29.3	23.5	8.1	0.1	28.2	20.1	91.2	31.3	6.0	5.8	5.9		6			
IM1	Cloudy	Moderate	15:12	6.6	Middle	3.3	0.2	173	29.2	29.2	8.1	8.1	28.5	28.5	84.8 84.5	84.7	5.6	5.0	6.5	6.5	7	7	818359	806479
	Oloudy	Moderate	10.12	0.0	Middle	3.3	0.2	167	29.2	20.2	8.1	0.1	28.6	20.0	84.5	04.1	5.5		6.6	0.0	6	•	010000	000470
					Bottom	5.6	0.1	211	29.2	29.2	8.1	8.1	28.7	28.7	85.4	85.6	5.6	5.6	7.1		6			
					Dollo	5.6	0.2	209	29.2	20.2	8.1	0	28.6	20	85.8	00.0	5.6	0.0	7.2		8			
					Surface	1.0	0.1	186	29.8	29.8	8.1	8.1	27.5	27.5	93.7	93.7	6.1		8.0		6			
					Gundoc	1.0	0.0	184	29.8	20.0	8.1	0.1	27.6	21.0		00.1	6.1	5.8	8.0		7			
IM2	Cloudy	Moderate	15:07	7.0	Middle	3.5	0.1	153	29.2	29.2	8.1	8.1	28.5	28.5	84.4	84.3	5.5	0.0	9.1	8.8	5	5	819179	806226
11412	Cloudy	Moderate	10.07	7.0	Middle	3.5	0.1	147	29.2	20.2	8.1	0.1	28.6	20.0		04.0	5.5		9.2	0.0	4	O	010170	000220
					Bottom	6.0	0.1	175	29.2	29.2	8.1	8.1	28.7	28.7	84.7	84.8	5.5	5.6	9.0		3			
					Bottom 6.0	6.0	0.2	167	29.2	20.2	8.1	0.1	28.7	20.1	84.9	04.0	5.6	0.0	9.2		4			
					Surface	1.0	0.2	86	29.7	29.7	8.1	8.1	24.5	24.5	86.6 86.6	86.6	5.8		4.0		4			
					1.0	1.0	0.1	92	29.6	25.7	8.1	0.1	24.5	24.0		55.0	5.8	5.7	4.3	1	4			
IM7	Cloudy	oudy Moderate 14	14:33	8.0	Middle	4.0	0.1	91	29.5	29.5	8.1	8.1	27.4	27.4	85.9 85.8	85.9	5.6	· · ·	6.4	6.1	4	4	821372	806822
	J.Judy	casiato		5.0	duic	4.0 0.1 93 29.5		25.0	8.1	0.1	27.4	27.∃		55.0	5.6		6.5]	4	•	02.072	333022		
				Rottom 7.0 0.2 70 29.4 29.4 8.	8.1	8.1	27.6	27.6	85.9	86.0	5.6	5.6	7.6	1	4									
					Bottom	7.0	0.2	70	29.4	20.7	8.1	0.1	27.7	27.0	86.0	00.0	5.6	0.0	7.6		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 03 October 23 during Mid-Ebb Tide

Water Quar	10, 111011110	orning recou	11.5 011		03 October 23	during wild-																		
Monitoring	Weather	Sea	Sampling	Water	On well a	h ()	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					2 /	1.0	0.1	13	26.2		8.0		28.4	20.4	97.1	07.0	6.7		6.5		4			
					Surface	1.0	0.0	16	26.1	26.2	8.0	8.0	28.4	28.4	97.2	97.2	6.7		6.5		3			
11110	Cummu	Madazata	42.42	0.0	Middle	4.5	0.1	17	26.0	20.0	8.0	0.0	28.8	20.0	93.3	02.5	6.4	6.6	8.1	7.0	3	,	000040	000054
IM10	Sunny	Moderate	13:43	9.0	Middle	4.5	0.2	9	26.0	26.0	8.0	8.0	28.8	28.8	93.6	93.5	6.4		8.0	7.9	4	4	822248	809854
					Bottom	8.0	0.1	24	26.2	26.2	8.0	8.0	28.4	28.4	95.1	95.3	6.5	6.6	9.3		4			
					Dollom	8.0	0.0	31	26.2	20.2	8.0	0.0	28.3	20.4	95.4	93.3	6.6	0.0	9.3		4			
					Surface	1.0	0.1	32	26.4	26.4	8.0	8.0	28.4	28.4	97.6	97.5	6.7		5.8		2			
					Ouriace	1.0	0.0	29	26.4	20.4	8.0	0.0	28.4	20.4	97.3	37.5	6.7	6.6	5.8		2			
IM11	Sunny	Moderate	13:47	7.2	Middle	3.6	0.1	42	26.1	26.1	8.0	8.0	28.8	28.8	93.1	93.0	6.4	0.0	8.0	7.6	3	3	821484	810555
	Curiny	Moderate	10.47	7.2	Wildaio	3.6	0.1	41	26.1	20.1	8.0	0.0	28.9	20.0	92.9	50.0	6.4		7.9	7.0	3	Ü	021404	010000
					Bottom	6.2	0.0	30	26.0	26.0	8.0	8.0	29.0	29.0	93.8	93.9	6.4	6.5	8.9		3			
					20110111	6.2	0.0	35	26.0	20.0	8.0	0.0	29.0	20.0	94.0	00.0	6.5	0.0	8.8		3			
					Surface	1.0	0.1	92	26.1	26.1	8.0	8.0	28.7	28.7	96.1	96.0	6.6		6.2		4			
						1.0	0.1	99	26.1		8.0		28.7		95.9		6.6	6.4	6.1		4			
IM12	Sunny	Moderate	13:52	8.2	Middle	4.1	0.1	66	25.9	25.9	8.0	8.0	29.1	29.1	88.8	88.9	6.1		7.1	7.4	4	4	821172	811533
	,					4.1	0.1	61	25.9		8.0		29.1		88.9		6.1		7.1		4			
					Bottom	7.2	0.0	58	25.8	25.8	8.0	8.0	29.2	29.2	91.2	91.3	6.3	6.3	9.0		4			
						7.2	0.0	60	25.8		8.0		29.2		91.4		6.3		9.0		3			
					Surface	1.0	0.0	29	26.2	26.2	8.0	8.0	28.5	28.5	94.6	94.6	6.5		4.5		3			
						1.0	0.0	35	26.2		8.0		28.5		94.6		6.5	6.5	4.5		2			
SR1A	Fine	Moderate	14:11	4.8	Middle	2.4	0.1	38	-	-	-	-	-	-	-	-	-		-	5.1	-	3	819983	812656
								36									-							
					Bottom	3.8	0.0	33 29	26.2 26.2	26.2	8.0	8.0	28.5	28.5	94.9 95.0	95.0	6.5 6.5	6.5	5.7 5.8		3			
				1		1.0	0.1	57	26.2										6.9		3			
					Surface	1.0	0.2	56	26.2	26.2	8.1	8.1	28.6	28.6	99.4 99.2	99.3	6.8		6.9		2			
						-	0.2	41	- 20.2		-		20.0		99.2		-	6.8	-		-			
SR2	Fine	Moderate	14:23	4.0	Middle	<u> </u>	0.2	37	-	-	H	-	-	-	-	-	-		-	7.2	-	4	821459	814170
						3.0	0.1	53	26.0		8.0		28.8		99.0		6.8		7.6		5			
					Bottom	3.0	0.2	47	26.0	26.0	8.0	8.0	28.8	28.8	99.5	99.3	6.8	6.8	7.6		4			
						1.0	0.2	98	30.0		8.0		24.1		88.0		5.8		4.0		4			
					Surface	1.0	0.1	92	29.9	30.0	8.0	8.0	24.2	24.1	88.0	88.0	5.8		4.1		5			
						4.7	0.1	115	29.7		8.1		26.4		87.7		5.8	5.8	5.0		3			
SR3	Cloudy	Moderate	14:26	9.3	Middle	4.7	0.2	109	29.7	29.7	8.1	8.1	26.4	26.4	87.7	87.7	5.8		5.2	6.0	4	4	822154	807593
						8.3	0.1	134	29.6		8.1		27.3		87.9		5.8		8.6		3			
					Bottom	8.3	0.1	141	29.5	29.6	8.1	8.1	27.3	27.3	87.9	87.9	5.8	5.8	9.1		4			
						1.0	0.0	76	30.1		8.1		27.2		93.6		6.1		6.2		11			
					Surface	1.0	0.0	83	30.0	30.1	8.1	8.1	27.2	27.2	93.6	93.6	6.1	- 0	6.3		10			
00.44	Olevele	Madazi	40.00	0.0	N 41-1-11-	4.5	0.0	49	29.5	00.5	8.1	0.4	27.7	07.7	87.4	07.4	5.7	5.9	7.7	7.0	8		047400	007000
SR4A	Cloudy	Moderate	16:03	9.0	Middle	4.5	0.1	50	29.5	29.5	8.1	8.1	27.7	27.7	87.4	87.4	5.7		7.8	7.3	7	8	817169	807828
					Bottom	8.0	0.0	74	29.4	29.4	8.1	0.1	27.7	27.7	88.0	88.2	5.8	5.8	8.1		7			
					DULLUIII	8.0	0.0	67	29.4	29.4	8.1	8.1	27.7	27.7	88.3	00.2	5.8	0.0	8.0		6			
					Surface	1.0	-	-	26.1	26.1	8.0	8.0	28.6	28.6	91.4	91.3	6.3		8.1		3			
					Surface	1.0	-	•	26.1	20.1	8.0	0.0	28.6	20.0	91.2	91.3	6.3	6.3	8.1		2			
SR8	Sunny	Moderate	12.56	5.0	Middle	-	-	-	-		-		-		-		-	0.3	-	8.6	-	4	820369	811615
SNO	Suriny	nny Moderate 13:56 5.0	ivildule	-	-	•	-		-		-		-				1	0.0	-	4	020309	011015		
			Bottom	4.0	-	-	25.9	25.9	8.0	8.0	28.7	28.7	89.8	89.8	6.2	6.2	9.2		5					
					Dollom	4.0	-	-	25.9	20.5	8.0	0.0	28.7	20.1	89.8	03.0	6.2	0.2	9.1		4			

Water Quality Monitoring Results on 03 October 23 during Mid-Flood Tide

Martin	water Quai	ity wonit	oring Resu	its on		03 October 23	auring Mia-	riooa ii	ae																
Station Condition Conditio	Monitoring	Weather	Sea	Sampling	Water				Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)					Turbidity	(NTU)				Coordinate
Fire Moderate Mo		Condition	Condition	Time	Depth (m)	Sampling Depti	n (m)	•		Value	Average	Value	Average	Value	Average		, ,			Value	DA		,		
Surface Fine Moderate O3-40 Reference A3 O4 A A4 A4 A4 A4 A4 A4							1.0	0.5	20	20.4		0.1			-		-	6.0		0.6		6			l I
Fine Moderate Part Moderate Part						Surface					29.4		8.1		27.0		90.4				1				
Price Moderate 19:49 8.6 Micore 4.3 0.4 41 292 291 8.1 8.1 294 294 88.5 88.5 8.5 5.8 5.0 5.5																			5.9		1				
Bottom 7.6 0.4 19 20.1 20.1 8.1 8.1 20.4 29.4 88.5 88.5 5.8 5.8 5.8 10.2 4.5	C1	Fine	Moderate	09:49	8.6	Middle					29.2		8.1		29.2		88.2				8.7		5	815629	804246
Sumary Moderate 11.28 Mo																					1	_			
Surface 1.0						Bottom					29.1		8.1		29.4	88.5	88.5		5.8						
Cable Fine Moderate Fine Fine Fine Moderate Fine Fine Fine Moderate Fine																									
C2 Fine Moderate 11:28 12.7 Middle 6.4 0.4 3.43 29.5 29.5 8.0 8.0 25.5 25.5 80.4 80.4 5.3 3 4 82570 806934						Surface					29.7	8.0	8.0		25.4	82.5	82.5				1				
Moderate 11.26 Moderate 12.17 Moderate Mode	00			44.00	40.7						00.5								5.4		1				
Surface Surf	C2	Fine	Moderate	11:28	12.7	Middle	6.4	0.4	337	29.5	29.5		8.0		25.5	80.4	80.4	5.3			4.7	4	4	825705	806934
Surface 10.10 11.7 0.5 327 29.5 29.5 8.0 8.0 25.6 25.8 25.8 8.0 8.0 25.8 25						D-H	11.7	0.4	334	29.5	00.5	8.0	0.0	25.6	05.0	80.3	00.0	5.3	. 0	5.7		3			
Suny Moderate O9:19 12.2 Middle 6.1 O.6 C.77 C.25.5 C.5.5						Bottom	11.7	0.5	327	29.5	29.5		8.0	25.6	25.6		80.3		5.3	6.0		4			
Suny Moderate 10:19 12:2 Middle 6:1 0.6 277 25:5 25:5 8.0 8.0 29:9 29:9 82:0 82:1 5.7 5.6 3 3 82211 817818						Curtoso	1.0	0.5	261	25.9	25.0		9.0		20.7		90.7	6.2		4.6		4			
C3						Surface	1.0	0.5	258	25.8	25.9	8.0	0.0	28.7	20.7	89.6	09.7	6.2	6.0	4.7		2			
Moderate 10:12 6.5 Bottom 11:2 0.6 279 25.5 25.5 8.0 8.0 30.2 30.2 79.8 79.8 5.5 5.5 7.0 3 3 3 3 3 3 3 3 3	C3	Suppy	Moderate	00.10	12.2	Middle	6.1	0.6	277		25.5	8.0	8.0	29.9	20.0	82.2	82.1	5.7	0.0	5.1	5.6		3	822111	817818
Moderate 10:12 6.5 Surface 1.0 0.3 14 29.4 29.4 8.1 8.1 27.9 27.9 87.8 5.5 5.5 7.0 2 2 2 2 2 2 2 2 2	03	Odiniy	Woderate	03.13	12.2	Wildele		0.6		25.5	25.5		0.0	29.9	23.3	82.0	02.1	5.7		5.2	3.0	3	3	022111	017010
Moderate 10:12 6.5 Surface 1.0 0.3 14 29:4 29:4 29:4 8.1 8.1 27:9 27:9 87:9 87:8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.7 7.3 5.8 5.8 5.7 7.3 5.8 5.8 5.7 5.8 5.8 5.7 5.8						Bottom					25.5	8.0	8.0	30.2	30.2	79.8	79.8	5.5	5.5						
Moderate 10:12 6.5 Middle 10:0 0.3 16 29.3 29.4 8.1 6.1 27.9 27.9 87.7 67.8 5.8 5.7 7.4 7.9 7.9 8.1 8.1 27.9 27.9 87.7 67.8 5.8 5.7 7.4 7.9 7.9 8.1 8.1 27.9 27.9 87.7 67.8 5.8 5.7 7.4 7.9 7.9 8.1 8.1 27.9 27.9 87.7 67.8 5.8 5.7 7.4 7.9 7.9 8.1 8.1 27.9 27.9 87.7 67.8 5.8 5.7 7.4 7.9 7.9 8.1 8.1 27.9 27.9 87.7 67.8 5.8						Bottom					20.0		0.0		00.2		7 0.0		0.0						
Middle						Surface					29.4		8.1		27.9	87.9	87.8								
Moderate 10.12 Moderate 10.12 Moderate 10.17 Moderate 10.19 Moderate 10.49 Moderate																			5.7						
Bottom 5.5 0.3 40 29.1 29.1 8.1 8.1 29.4 29.4 84.5 6.5 5.5 11.5 6 5 5 6 7.5 11.2 6 6	IM1	Fine	Moderate	10:12	6.5	Middle					29.2		8.1		28.8	84.2	84.2	5.5			8.9		5	818356	806448
Moderate 10:17 Fine Moderate 10:49 8.2 Surface 10:49 8.2 Surface 10:49																					1				
HM2 Fine Moderate 10:17						Bottom					29.1		8.1		29.4		84.6		5.5						
Moderate 10:17 6.6 Middle 10:17 Middle 10:17 10:17 Middle																									
HM2 Fine Moderate 10:17 6.6 Middle 3.3 0.3 358 29.2 29.2 8.1 8.1 8.1 28.6 28.7 85.1 85.1 5.6 5.6 5.6 12.2 8.1 12.2 88.7 85.1 85.1 12.6 12.2 88.7 85.1 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.2 88.7 85.1 12.6 12.2 88.7 85.1 12.2 88.7 85.1 12.2 88.7 85.1 12.2 88.7 85.1 1						Surface					29.3		8.1		28.2	89.8	87.8				-				
Moderate 10:17 6.6 Middle 3.3 0.3 356 29.2 29.2 8.1 8.1 29.1 29.0 29.0 85.7 85.1 5.6 12.2 9.8 4 4 819189 806244																			5.7		-				
Bottom	IM2	Fine	Moderate	10:17	6.6	Middle					29.2		8.1		28.7		85.1				9.8		4	819189	806244
Moderate 10:49 8.2 Surface 10:49 8.2 Surface 10:49 8.2 Middle 4.1 0.3 359 29:5 29:5 29:5 8.1 8.1 29:8 29:8 8.0 8.0 24:4 24:4 85:1 85:2 5:6 5:6 5:6 6:8 7:7 7:8																					1				
IM7 Fine Moderate 10:49 8.2 Surface 1.0 0.3 18 29.8 29.8 8.0 8.0 24.4 24.4 24.4 85.1 85.2 5.6 5.7 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6						Bottom					29.2		8.1		29.0	85.7	85.7		5.6		1				
IM7 Fine Moderate 10:49 8.2 Surface 1.0 0.2 12 29.8 29.8 8.0 8.0 24.4 24.4 85.2 5.7 5.6 5.6 5.6 11.3 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0																									!
IM7 Fine Moderate 10:49 8.2 Middle 4.1 0.3 355 29.5 29.5 8.1 8.1 27.4 27.3 85.7 5.6 5.6 5.6 6.8 7.2 9.0 5.4 4 821344 806840						Surface					29.8	8.0	8.0		24.4	85.2	85.2				1				
IM/ Fine Moderate 10:49 8.2 Middle 4.1 0.3 359 29.5 29.5 8.1 8.1 27.2 27.3 85.7 5.6 7.2 9.0 4 4 821344 806840				40.40							00.5					85.7	05.7		5.6		1				
Pottom 7.2 0.2 30 29.4 20.4 8.1 9.4 27.9 27.0 85.8 95.0 5.6 5.6 8.8 4	IM/	Fine	Moderate	10:49	8.2	Middle					29.5		8.1		27.3	85.7	85.7				9.0		4	821344	806840
						Pottom	7.2	0.2	30	29.4	20.4	8.1	0.1	27.9	27.0	85.8	05.0	5.6	E 6	8.8	1	4			
						Bollom	7.2	0.3	31		29.4		ö. I		27.9	85.9	გე.ყ	5.6	o.c	8.9	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 03 October 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	n (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Depti	1 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	285	26.0	26.0	8.0	8.0	28.6	28.7	93.4	93.3	6.4		5.8		3			
					Ourlace	1.0	0.4	281	26.0	20.0	8.0	0.0	28.7	20.7	93.2	33.3	6.4	6.4	5.9		3			
IM10	Sunny	Moderate	10:32	8.2	Middle	4.1	0.4	278	25.9	25.9	8.0	8.0	29.1	29.1	92.9	92.9	6.4	0.4	7.0	6.8	3	3	822239	809858
114110	Curiny	Moderate	10.02	0.2	Wildaic	4.1	0.4	282	25.9	20.0	8.0	0.0	29.1	20.1	92.9	02.0	6.4		7.0	0.0	3	O	OZZZOO	000000
					Bottom	7.2	0.4	287	25.7	25.7	8.0	8.0	29.2	29.3	93.5	93.6	6.4	6.5	7.6		4			
					20110111	7.2	0.3	283	25.7	20	8.0	0.0	29.3	20.0	93.7	00.0	6.5	0.0	7.6		3			
					Surface	1.0	0.5	281	26.2	26.2	8.0	8.0	28.6	28.6	97.6	97.5	6.7		5.5		3			
						1.0	0.4	286	26.1		8.0		28.7		97.3		6.7	6.4	5.5	1	4			
IM11	Sunny	Moderate	10:26	7.6	Middle	3.8	0.5	290	25.9	25.9	8.0	8.0	29.2	29.2	89.2	89.2	6.1	0	6.1	6.4	3	4	821511	810525
	ouy	moderate	10.20	7.0	madio	3.8	0.5	289	25.9	20.0	8.0	0.0	29.2	20.2	89.2	00.2	6.1		6.1] ".	4	·	02.0	0.0020
					Bottom	6.6	0.5	280	26.0	26.1	8.0	8.0	29.0	29.0	90.2	90.4	6.2	6.2	7.6	1	4			
					Dollo	6.6	0.5	283	26.1	20.1	8.0	0.0	29.0	20.0	90.6	00.1	6.2	0.2	7.6		4			
					Surface	1.0	0.5	274	26.2	26.2	8.0	8.0	28.4	28.4	94.8	94.8	6.5		4.2	1	4			
					- Curiaco	1.0	0.6	275	26.2	20.2	8.0	0.0	28.4	20	94.8	00	6.5	6.3	4.1		6			
IM12	Sunny	Moderate	10:20	8.6	Middle	4.3	0.5	265	25.9	25.9	8.0	8.0	29.2	29.2	87.5	87.4	6.0	0.0	5.1	5.2	5	4	821146	811535
	Curiny	Moderate	10.20	0.0	Middle	4.3	0.5	266	25.9	20.0	8.0	0.0	29.2	20.2	87.3	07.4	6.0		5.1	0.2	4	-	021140	011000
					Bottom	7.6	0.5	282	25.9	25.9	8.0	8.0	29.3	29.2	88.1	88.2	6.1	6.1	6.5		3			
					Bottom	7.6	0.4	288	25.9	25.5	8.0	0.0	29.2	20.2	88.2	00.2	6.1	0.1	6.5		4			
					Surface	1.0	0.1	183	26.1	26.1	8.0	8.0	28.5	28.5	95.7	95.8	6.6		6.3		5			
					Surface	1.0	0.0	181	26.1	20.1	8.0	0.0	28.5	20.0	95.8	33.0	6.6	6.6	6.3		4			
SR1A	Sunny	Moderate	09:58	4.2	Middle	2.1	0.1	187	-	_	-		-	_	-	_	-	0.0	-	6.7	-	4	819974	812665
OKIA	Guilly	Moderate	03.50	7.2	ivildate	2.1	0.1	180	-		-		-		-		-		-	0.7	-	7	013374	012003
					Bottom	3.2	0.0	170	25.8	25.8	8.0	8.0	28.7	28.7	96.7	96.9	6.7	6.7	7.1		4			
					Dottom	3.2	0.0	164	25.7	20.0	8.0	0.0	28.7	20.7	97.0	50.5	6.7	0.7	7.1		3			
					Surface	1.0	0.1	252	26.2	26.2	8.0	8.0	27.9	28.0	98.8	98.8	6.8		5.0		5			
					Gundoo	1.0	0.1	250	26.2	20.2	8.0	0.0	28.0	20.0	98.7	50.0	6.8	6.8	5.0		4			
SR2	Sunny	Moderate	09:46	4.2	Middle	-	0.1	259	-	_	-		-	_	-	_	-	0.0	-	5.0	-	4	821467	814142
OILE	Curiny	Moderate	00.40	7.2	Wildaic	-	0.1	260	-		-		-		-		-		-	0.0	-	-	021407	014142
					Bottom	3.2	0.2	260	26.2	26.2	8.0	8.0	28.5	28.4	95.4	95.6	6.5	6.6	5.1		3			
					Dottom	3.2	0.1	266	26.2	20.2	8.0	0.0	28.4	20.4	95.7	50.0	6.6	0.0	5.0		4			
					Surface	1.0	0.4	334	30.0	30.0	8.0	8.0	23.9	23.9	87.8	87.8	5.8		9.2		4			
					- Curiaco	1.0	0.4	337	30.0	00.0	8.0	0.0	23.9	20.0	87.7	07.0	5.8	5.8	9.4		4			
SR3	Fine	Moderate	10:55	8.7	Middle	4.4	0.4	346	29.7	29.7	8.1	8.1	26.5	26.6	87.6	87.6	5.8	0	6.4	9.9	4	4	822149	807588
5				J		4.4	0.4	339	29.7	20	8.1	J	26.6		87.6	00	5.8		6.5	1 5.5	5	•	3223	00.000
					Bottom	7.7	0.4	7	29.5	29.5	8.1	8.1	27.4	27.4	87.3	87.3	5.7	5.7	13.8	1	4			
			<u> </u>			7.7	0.4	5	29.5		8.1		27.4		87.3		5.7		14.0	<u> </u>	5			
					Surface	1.0	0.0	188	29.5	29.5	8.0	8.0	27.6	27.6	88.8	88.8	5.8		11.9	1	6			
						1.0	0.1	187	29.5		8.0		27.6		88.8		5.8	5.8	12.0	1	6			
SR4A	Fine	Moderate	09:29	8.2	Middle	4.1	0.0	185	29.3	29.3	8.0	8.0	28.4	28.4	87.2	87.2	5.7		9.6	11.3	6	6	817191	807791
	'				***************************************	4.1	0.0	181	29.3		8.0		28.4		87.2		5.7		9.9	1	6	-		
					Bottom	7.2	0.1	184	29.3	29.3	8.0	8.0	28.6	28.6	87.5	87.5	5.7	5.7	12.4	1	6			
			<u> </u>			7.2	0.0	183	29.3		8.0		28.6		87.5		5.7		12.3	<u> </u>	6			
					Surface	1.0	-	-	26.1	26.1	8.0	8.0	28.5	28.5	92.8	92.8	6.4		8.3	1	4			
						1.0	-	-	26.1		8.0		28.5		92.8		6.4	6.4	8.3	1	3			
SR8	Sunny	Moderate	10:15	5.6	Middle	-	-	-	-	_	-	<u>.</u>	-	_	-	-	-		-	8.5	-	4	820398	811637
			10:15 5.6		-	-	-	-		-		-		-		-		-	1	-	•			
					Bottom	4.6	-	-	26.0	26.0	8.0	8.0	28.6	28.6	92.9	93.0	6.4	6.4	8.7	1	5			
						4.6	-	-	26.0		8.0		28.6		93.0		6.4		8.7		4			

Water Quality Monitoring Results on 05 October 23 during Mid-Ebb Tide

water Qua	ity wonit	oring Resu	แรงเก		05 October 23	auring Mia-	EDD HUG	;																
Manitoria	Weather	Sea	Sampling	Water			Current	Current	Water Te	emperature (°C)	рŀ	1	Salin	ity (ppt)		aturation	Disso	olved /gen	Turbidity	(NTU)	Suspende		Coordinate	Coordinate
Monitoring Station					Sampling Dept	h (m)	Speed	Direction		. ,						%)	Oxy	/gen			(mg	(L)	HK Grid	HK Grid
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	218	29.7	29.7	8.1	0.4	26.4	26.4	90.9	90.9	6.0		3.7		2			
					Surface	1.0	0.1	215	29.7	29.7	8.1	8.1	26.4	26.4	90.9	90.9	6.0	5.8	4.0		2			
C1	Cloudy	Moderate	16:59	8.4	Middle	4.2	0.1	196	29.3	29.3	8.1	8.1	30.8	30.7	85.4	85.4	5.5	5.8	11.8	9.4	3	3	815615	804254
Ci	Cioday	Woderate	10.55	0.4	Wildule	4.2	0.1	199	29.3	25.5	8.1	0.1	30.7	30.7	85.4	05.4	5.5		11.6	9.4	4	3	013013	804234
					Bottom	7.4	0.1	224	29.3	29.3	8.1	8.1	31.3	31.3	85.1	85.2	5.5	5.5	12.9		4			
					Dottom	7.4	0.1	229	29.3	20.0	8.1	0.1	31.3	01.0	85.2	00.2	5.5	0.0	12.8		3			
					Surface	1.0	0.1	331	30.1	30.1	8.0	8.0	22.7	22.6	88.5	88.5	5.9		2.1		3			
						1.0	0.2	329	30.1		8.0		22.6		88.4		5.9	5.8	2.2		3			
C2	Cloudy	Moderate	15:28	12.1	Middle	6.1	0.1	335	29.9	29.9	8.0	8.0	24.3	24.3	84.1	84.1	5.6		2.2	2.2	2	3	825688	806948
	1					6.1	0.1	338	29.9		8.0				84.1		5.6		2.2		3			
					Bottom	11.1	0.1	0	29.9 29.9	29.9	8.0	8.0	24.5 24.5	24.5	83.8	83.8	5.6	5.6	2.2		2			
						11.1 1.0	0.0	2 10	28.9		8.0 8.1				83.8		5.6 10.4		3.0		3			
					Surface	1.0	0.0	6	28.8	28.9	8.1	8.1	22.6	22.6	152.4 148.5	150.5	10.4		3.0		2			
						5.1	0.0	33	28.3		8.1				91.8		6.2	8.3	4.9		3			
C3	Fine	Moderate	16:23	10.2	Middle	5.1	0.1	26	28.3	28.3	8.1	8.1	24.4	24.4	91.9	91.9	6.3		4.9	4.8	2	3	822120	817779
					_	9.2	0.1	8	28.1		8.1				86.8		5.8		6.6		4			
					Bottom	9.2	0.1	14	28.1	28.1	8.1	8.1	28.3	28.3	87.4	87.1	5.8	5.8	6.5		3			
					0 /	1.0	0.0	188	29.9	22.2	8.1		26.4		87.0		5.7		4.5		3			
					Surface	1.0	0.0	189	29.9	29.9	8.1	8.1	26.4	26.4	87.0	87.0	5.7	5.3	4.5		3			
IM1	Cloudy	Moderate	16:35	6.8	Middle	3.4	0.1	173	29.3	29.3	8.1	8.1	29.8 29.8	29.8	76.1	76.2	4.9	5.3	13.2	9.2	3	4	818344	806446
IIVII	Cloudy	Moderate	10.33	0.0	ivildule	3.4	0.0	176	29.3	29.5	8.1	0.1	29.8	29.0	76.2	76.2	4.9		13.9	9.2	4	4	010344	000440
					Bottom	5.8	0.0	193	29.3	29.3	8.1	8.1	29.9	29.9	76.7	76.9	5.0	5.0	9.3		4			
					Bottom	5.8	0.0	193	29.3	20.0	8.1	0.1	29.9	20.0	77.0	70.0	5.0	0.0	9.7		4			
					Surface	1.0	0.1	80	29.7	29.8	8.1	8.1	27.2 27.0	27.1	86.3	86.4	5.6		4.4		3			
						1.0	0.1	80	29.8		8.1				86.5		5.7	5.3	4.4		4			
IM2	Cloudy	Moderate	16:31	7.0	Middle	3.5	0.1	92	29.4	29.4	8.1	8.1	29.9 30.0	30.0	75.6	75.6	4.9		12.8	8.3	4	3	819164	806215
						3.5	0.1	97	29.4		8.1				75.6		4.9		12.1		3			
					Bottom	6.0 6.0	0.0	89	29.4 29.4	29.4	8.1 8.1	8.1	30.3	30.2	76.9 77.0	77.0	5.0	5.0	8.0 8.0		2			
						1.0	0.0	85 81	30.0		8.1						6.0		2.0		2			
					Surface	1.0	0.0	88	30.0	30.0	8.0	8.0	23.0	23.0	90.6	90.7	6.0	1	2.0		2			
						3.8	0.0	72	29.8		8.0				88.1		5.9	6.0	2.2	1	3			
IM7	Cloudy	Moderate	15:56	7.6	Middle	3.8	0.1	73	29.8	29.8	8.0	8.0	23.4	23.4	88.1	88.1	5.9		2.2	2.1	3	3	821360	806835
						6.6	0.1	91	29.8		8.0		23.5		89.1		5.9		2.2		3			
					Bottom	6.6	0.1	90	29.8	29.8	8.0	8.0	23.5	23.5	89.1	89.1	5.9	5.9	2.2	1	3			
DA: Dooth Avoi			•															•		•	·			•

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined Note: The monitoring session on 7 October 2023 was cancelled due to Strong Wind Signal No.3 in force.

Water Quality Monitoring Results on 05 October 23 during Mid-Ebb Tide

water Quai	ity wonin	oning Kesu	113 011		U5 October 23	auring Mia-	EDD TIU	;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dan	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved rgen	Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Overfor an	1.0	0.1	314	29.2	00.0	8.1	0.4	23.7	00.7	85.8	85.7	5.8		1.2		4			
					Surface	1.0	0.1	306	29.2	29.2	8.1	8.1	23.7	23.7	85.5	85.7	5.8		1.2	1	5			
			45.00			4.6	0.1	316	29.1		8.1		23.9		81.0	04.0	5.4	5.6	2.2	1	3			
IM10	Sunny	Moderate	15:26	9.2	Middle	4.6	0.1	310	29.2	29.2	8.1	8.1	23.8	23.8	80.9	81.0	5.4	1	2.2	2.1	3	3	822256	809832
						8.2	0.0	308	29.2		8.1		23.5		81.3		5.5		3.0	1	3			
					Bottom	8.2	0.1	311	29.2	29.2	8.1	8.1	23.4	23.5	81.6	81.5	5.5	5.5	3.0	1	2			
						1.0	0.1	318	29.3		8.1		22.8		89.2		6.0		1.7		3			
					Surface	1.0	0.1	311	29.3	29.3	8.1	8.1	22.9	22.8	89.1	89.2	6.0	1	1.7	1	4			
	_					3.6	0.1	318	29.3		8.1		23.2		89.9		6.1	6.1	3.9	1	4	_		
IM11	Sunny	Moderate	15:31	7.2	Middle	3.6	0.1	311	29.3	29.3	8.1	8.1	23.2	23.2	90.1	90.0	6.1	1	3.8	3.3	3	3	821508	810556
					_	6.2	0.1	295	29.3		8.1		23.2		91.2		6.1		4.4	1	2			
					Bottom	6.2	0.0	295	29.3	29.3	8.1	8.1	23.1	23.1	91.7	91.5	6.2	6.2	4.3	1	3			
						1.0	0.1	300	29.1		8.1		24.7		83.0		5.6		2.1		2			
					Surface	1.0	0.1	296	29.1	29.1	8.1	8.1	24.7	24.7	82.9	83.0	5.6	l	2.0	1	3			
						4.0	0.1	315	29.1		8.1		24.9		82.7		5.5	5.6	3.2	1	2			
IM12	Sunny	Moderate	15:35	8.0	Middle	4.0	0.1	316	29.1	29.1	8.1	8.1	24.9	24.9	82.6	82.7	5.5	ł	3.2	3.4	3	3	821154	811536
						7.0	0.1	321	29.0		8.1		25.0		82.6		5.5		4.8		3			
					Bottom	7.0	0.0	328	29.0	29.0	8.1	8.1	25.0	25.0	82.7	82.7	5.5	5.5	4.9		2			
			1			1.0	0.0	24	29.3		8.1	1	21.4		118.2		8.0		1.1	1	3			
					Surface	1.0	0.0	19	29.3	29.3	8.1	8.1	21.4	21.4	117.7	118.0	8.0	ł	1.1	1	3			
						2.4	0.0	24	-		-		-		-		-	8.0	- 1.1	1	-			
SR1A	Fine	Moderate	15:54	4.8	Middle	2.4	0.0	20	-	-	-	-	-	-	-	-	-	ł		1.7		3	819979	812658
						3.8	0.0	28	29.5		8.1		23.3		113.0		7.6		2.3	1	4			
					Bottom	3.8	0.0	34	29.5	29.5	8.1	8.1	23.2	23.2	114.4	113.7	7.7	7.7	2.3	1	3			
			1			1.0	0.0	47	29.5		8.1	1	21.5		120.5		8.1		1.0	1	3			
					Surface	1.0	0.1	43	29.5	29.5	8.1	8.1	21.5	21.5	120.5	120.5	8.1	ł	1.0	1	2			
						-	0.1	67	-		-		-		-		-	8.1	-	1	-			
SR2	Fine	Moderate	16:06	5.0	Middle		0.1	69	-	-	F :	-	-	-	-	-	-	ł		1.9	-	3	821440	814181
						4.0	0.0	76	29.5		8.1		24.4		120.2		8.0		2.8	1	4			
					Bottom	4.0	0.0	70	29.5	29.5	8.1	8.1	24.4	24.4	120.2	120.2	8.0	8.0	2.8	1	3			
						1.0	0.1	19	30.1		8.0	1	22.7		90.5		6.0		2.2	-	4			
					Surface	1.0	0.1	24	30.0	30.1	8.0	8.0	22.8	22.7	90.4	90.5	6.0	ł	2.2	1	4			
						4.3	0.1	8	29.9		8.0		24.0		85.0		5.6	5.8	2.4	1	4			
SR3	Cloudy	Moderate	15:49	8.6	Middle	4.3	0.0	1	29.9	29.9	8.0	8.0	23.9	24.0	85.1	85.1	5.7	l	2.4	2.6	3	4	822162	807563
						7.6	0.0	22	29.8		8.0		26.0		80.9		5.3	1	3.4	1	3			
					Bottom	7.6	0.1	18	29.8	29.8	8.0	8.0	26.0	26.0	81.0	81.0	5.3	5.3	3.3	1	4			
		l	1			1.0	0.0	344											•		4			l I
					Surface	1.0	0.0	351	30.0 30.0	30.0	8.1	8.1	26.5 26.5	26.5	89.2 89.2	89.2	5.8 5.8	l	3.5	-	5			
						4.4	0.0	319				1						5.8	7.7	-				
SR4A	Cloudy	Moderate	17:28	8.8	Middle	4.4	0.0	319	29.6 29.6	29.6	8.1	8.1	26.9	26.9	86.9 86.7	86.8	5.7 5.7		8.2	7.9	3	3	817185	807824
						7.8						<u> </u>						-		-				
					Bottom	7.8	0.0	329	29.4 29.4	29.4	8.1 8.1	8.1	27.2	27.2	86.3 86.4	86.4	5.7 5.7	5.7	12.3 12.0	1	3 2			
			<u> </u>	<u> </u>			0.0	331				 								<u> </u>				
					Surface	1.0	-	-	29.2 29.2	29.2	8.1 8.1	8.1	23.1	23.1	85.6 85.5	85.6	5.8	1	5.9	-	3			
							-				+	1	23.1				5.8	5.8	5.8	-				
SR8	Sunny	Moderate	15:39	5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6.2	-	4	820411	811625
						- 4.5	-	-				 			- 00.5				-	-	-			
					Bottom	4.5	-	-	29.2	29.2	8.1	8.1	23.1	23.1	86.5	88.1	5.8	6.0	6.6	-	5			
						4.5	-	-	29.2		8.1		23.1		89.7		6.1		6.6		4			l

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

Note: The monitoring session on 7 October 2023 was cancelled due to Strong Wind Signal No.3 in force.

Water Quality Monitoring Results on 05 October 23 during Mid-Flood Tide

water Qua	ity wonit	oning Kesu	iits oii		05 October 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th ()	Current Speed	Current	Water Te	emperature (°C)	p	Н	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	tn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0.7	1.0	0.2	19	29.7	00.7	8.1		26.0		86.8		5.7		7.0		3			
					Surface	1.0	0.2	24	29.6	29.7	8.1	8.1	26.0	26.0	86.7	86.8	5.7		6.8	1	2			
0.4						4.0	0.2	25	29.3	20.0	8.1		30.8		85.1	05.4	5.5	5.6	8.5	١.,	2		0.4.500.5	00.4000
C1	Fine	Moderate	10:41	8.0	Middle	4.0	0.2	19	29.3	29.3	8.1	8.1	30.9	30.9	85.1	85.1	5.5		8.2	8.3	3	3	815607	804268
					5	7.0	0.2	47	29.2	22.2	8.1		31.3		85.8	05.0	5.5		9.5	1	3			
					Bottom	7.0	0.2	39	29.2	29.2	8.1	8.1	31.3	31.3	85.9	85.9	5.5	5.5	9.6	1	3			
					0	1.0	0.2	355	30.1	00.4	8.0	0.0	22.8	00.0	88.8	88.9	5.9		2.4		4			
					Surface	1.0	0.2	358	30.1	30.1	8.0	8.0	22.8	22.8	88.9	88.9	5.9	5.7	2.4	1	4			
C2	Fine	Moderate	12:13	11.8	Middle	5.9	0.3	0	29.8	29.8	8.0	8.0	24.7	24.7	83.7	83.7	5.5	5.7	10.5	8.8	4	4	825678	806956
02	Fille	Moderate	12.13	11.0	ivildale	5.9	0.2	0	29.8	29.0	8.0	6.0	24.8	24.7	83.6	03.7	5.5		10.6	0.0	4	4	023070	806936
					Bottom	10.8	0.2	356	29.8	29.8	8.0	8.0	25.3	25.3	84.2	84.3	5.6	5.6	13.7		3			
					Bollom	10.8	0.2	357	29.8	29.0	8.0	0.0	25.3	25.5	84.3	04.5	5.6	3.0	13.5		3			
					Surface	1.0	0.4	264	28.5	28.5	8.1	8.1	24.5	24.6	97.0	96.8	7.0		2.1		2			
					Cunacc	1.0	0.4	263	28.5	20.0	8.1	0.1	24.6	24.0	96.5	50.0	6.9	6.4	2.1		2			
C3	Sunny	Moderate	12:13	11.0	Middle	5.5	0.4	261	28.2	28.2	8.1	8.1	25.5	25.5	83.0	83.0	5.9		3.2	3.1	3	2	822118	817813
	,					5.5	0.3	258	28.2		8.1		25.5		82.9		5.9		3.2	1	2			
					Bottom	10.0	0.4	256	28.0	28.0	8.1	8.1	26.7	26.7	82.9	83.0	5.9	5.9	4.1	4	3			
						10.0	0.4	251	28.0		8.1		26.7		83.0		5.9		4.1		2			
					Surface	1.0	0.1	24	29.5 29.5	29.5	8.1 8.1	8.1	28.1	28.2	82.9 82.7	82.8	5.4		3.8		3			
						3.2	0.2	25 20	29.5				30.2				5.4 4.6	5.0	7.6	4				
IM1	Fine	Moderate	11:06	6.4	Middle	3.2	0.1	21	29.3	29.3	8.0	8.0	30.2	30.2	71.4 71.4	71.4	4.6		7.6	7.5	3	3	818338	806435
						5.4	0.1	359	29.3		8.0		30.5		72.1		4.7		11.0	-	3			
					Bottom	5.4	0.1	0	29.3	29.3	8.0	8.0	30.5	30.5	72.2	72.2	4.7	4.7	10.8	-	3			
						1.0	0.1	319	29.4		8.1		28.7		81.2		5.3		4.0	1	2			
					Surface	1.0	0.1	312	29.4	29.4	8.1	8.1	28.7	28.7	81.0	81.1	5.3		4.2	1	2			
						3.4	0.1	330	29.3		8.1		30.0		78.0		5.1	5.2	11.5	1	2	_		
IM2	Fine	Moderate	11:11	6.8	Middle	3.4	0.1	334	29.3	29.3	8.1	8.1	30.1	30.0	78.1	78.1	5.1		11.9	9.4	2	2	819198	806222
					Deller	5.8	0.1	331	29.2	00.0	8.1	0.4	30.8	00.0	79.7	79.8	5.2	5.2	12.1	1	3			
					Bottom	5.8	0.1	331	29.2	29.2	8.1	8.1	30.8	30.8	79.8	79.8	5.2	5.2	12.8	1	3			
					Surface	1.0	0.2	321	30.0	30.0	8.0	8.0	23.0	23.0	89.6	89.6	6.0		2.2		3			
					Surface	1.0	0.2	323	30.0	30.0	8.0	0.0	23.0	23.0	89.6 89.6	09.60	6.0	6.0	2.2		3			
IM7	Fine	Moderate	11:45	7.6	Middle	3.8	0.2	312	29.8	29.8	8.0	8.0	23.6	23.6	88.4	88.4	5.9	0.0	2.2	2.2	3	3	821353	806831
IIVI7	1 1110	iviouerate	11.43	7.0	IVIIUUIE	3.8	0.2	305	29.8	23.0	8.0	0.0	23.6	23.0	88.4	00.4	5.9		2.2		3	J	021000	000031
					Bottom	6.6	0.2	307	29.8	29.8	8.0	8.0	23.6	23.6	88.5	88.6	5.9	5.9	2.3]	2			
					2310111	6.6	0.1	314	29.7	25.0	8.0	0.0	23.6	_5.0	88.6	55.0	5.9	0.0	2.3		3			

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined Note: The monitoring session on 7 October 2023 was cancelled due to Strong Wind Signal No.3 in force.

Water Quality Monitoring Results on 05 October 23 during Mid-Flood Tide

Mathod M	water Quar	ity worm	orning recou	113 011		03 October 23	during wid-		uc																
Section Coulisin County	Monitoring	Weather	Sea	Sampling	Water	Consilies Des	th (m)		Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)					Turbidity	(NTU)				
Moderate Survey Moderate 13.06 13.06 13.07 29.11 24.11	Station	Condition	Condition	Time	Depth (m)	Sampling Dep	tn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
Moderate 13:00 Accordance 13:00 Accordance 13:00 Accordance 13:00 Accordance 13:00 Accordance Accoderate Accordance Accordance Accordance Accordance Acco						0	1.0	0.2	312	29.1	00.4	8.1	0.4	23.8	00.0	85.5	00.0	10.6		1.3		4			
Mile Surry Moderate 13.26 B.2 Mode						Suпасе	1.0	0.1	317	29.1	29.1		8.1	23.9	23.9		83.9			1.3	1	3			
Moderate 13-26 Section				40.00			4.1	0.2	297	29.0	20.0	8.1		24.3		81.8	04.0		10.3		١	4			
Miles	IM10	Sunny	Moderate	13:26	8.2	Middle					29.0		8.1		24.3		81.8				2.4		4	822249	809832
Miles						B ::	7.2	0.2	318	29.0	20.0	8.1		24.4		82.9		10.2	40.0	3.5	1	5			
Mile Survey Moderate 13-20 7-8 Middle 3.8 0.3 2.80 2.90 2.90 2.90 8.1 8.1 2.3 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 8.2 8.1 8.1 2.3 2.3 2.3 8.2 8.1 8.1 2.3						Bottom		0.2	320		29.0		8.1		24.4		82.9		10.2		1				
Mile						0 (1.0	0.3	284	29.1	00.4	8.1		23.3		82.2	04.7	10.2		4.9		3			
Moderate 1320 7.6 Mode						Suпасе	1.0	0.3	289	29.0	29.1	8.1	8.1	23.3	23.3	81.2	81.7	10.1		4.9	1	3			
Moderate Surface Sur	13.44	0	Madaata	40.00	7.0	NAC-L-III-	3.8	0.2	286	29.0	00.0	8.1	0.4	24.9	04.0	78.1	70.0		9.9	5.1	١.,	3		004.400	040550
Solition Fine Moderate 13.04 13.04 13.05 10.05	IM11	Sunny	Moderate	13:20	7.6	Middle	3.8	0.2	292		29.0		8.1		24.9		78.2				5.4		4	821498	810552
Sum Moderate 13.14 Sum Moderate 13						B ::	6.6	0.2	286	29.0	20.0	8.1		24.9		80.0		9.8		6.1	1	5			
Marcing Surface 1.0 0.0 2.86 2.93 2.9						Bottom	6.6	0.2	281	29.0	29.0		8.1	24.9	24.9		80.3		9.9	6.2	1	5			
Mile Sunny Moderate 13:14 8.4 Mide 42 0.2 296 291 291 81 81 81 81 81 81 81						0.1	1.0	0.2		29.3		_		23.2		-		10.8		1.8		3			
Middle						Surface					29.3		8.1		23.3		86.9				1				
Mile Survey Moderate 13:14 8.4 Miles 4.2 0.3 288 29:1 29:1 29:1 8.1 8.1 24.4 24.4 82.8 80:2 10.2							4.2	0.2	296	29.1		8.1		24.1					10.5	2.2	1	4	_		
Bottom Fine Fine Bottom Fine Bottom Fine Bottom Fine Fine Bottom Fine Bottom Fine Fine Bottom Fine Fine Bottom Fine Fine Bottom Fine Bottom Fine Fine Fine Bottom Fine Fine Fine Bottom Fine Fine Fine Bottom Fine Fine Fine Fine Bottom Fine Fine Fine Bottom Fine Fine Fine Fine Fine Fine Bottom Fine	IM12	Sunny	Moderate	13:14	8.4	Middle					29.1		8.1		24.2		82.8				2.1		4	821155	811517
Section Sect												_									1				
Surface 1.0						Bottom					29.1		8.1		24.4		82.9		10.2		1				
SRIA Sunny Moderate 12.52 4.2 Middle 1.0 0.0 171 29.3 29.3 8.0 8.0 8.0 22.9 12.9 88.9 87. 65. 65. 65. 3.1 4.3 2.3 819978 812663 Sunny Moderate 12.40												_		22.9								3			
SR1A Sumy Moderate 12:52 4.2 Middle 2.1 0.0 16:4 						Surface					29.3		8.0		22.9		88.7				1				
SR1 Surny Moderate 1.52 4.2 Middle 2.1 0.0 160										_		_				_			6.5		1		_		
SR2 Sunny Moderate 12:40 4.0 Surface 1.0 0.1 162 29.2 29.3 29.3 8.1 8.1 22.8 28.8 29.1 29.1 8.1 8.1 22.8 28.8 29.1 29.1 8.1 22.4 24.4 2	SR1A	Sunny	Moderate	12:52	4.2	Middle					-		-		-		-				4.3		3	819978	812663
SR2 Sunny Moderate 12:40 4.0 Software 10:21 Bottom 3.2 0.1 1555 29.3 29.5 29.1 29.1 8.1 8.1 22.8 2.2 91.3 91.0 6.6 8.5 5.5 1.3 3 1.2 1.4 14.8 14.14.8								0.1		29.2		8.1		22.8		90.6		6.6		5.4	1	4			
SR2 Sunny Moderate 12:40 4.0 Middle 1.0 0.0 270 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1						Bottom					29.3		8.1		22.8		91.0		6.6		1				
SR2 Sunny Moderate 12:40 4.0 Middle 1.0 0.0 270 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1						0.1	1.0	0.1	265	29.1	00.4	8.1		24.4		80.0		5.7		4.1		3			
SR2 Sunny Moderate 12:40 A 0 Middle 0.1 265						Surface					29.1		8.1		24.4		80.0				1				
SR2 Sunny Moderate 12-30 4.0 Micole - 0.1 264 - - - - - -	000			40.40						+									5.7		1				
RRA Fine Moderate 11:51 8.5 Surface 1.0 0.1 266 29.0 29.0 8.0 8.0 8.0 25.0 25.0 78.7 78.7 56. 56. 5.1 3.3 3 822145 807579 SR4A Fine Moderate 10:21 8.5 Middle 4.3 0.0 0.2 253 29.8 10.0 0.0 1.253 29.6 29.6 8.0 8.0 8.0 26.6 26.6 82.8 82.8 10.0 1.251 8.3 Middle 4.3 0.0 256 29.6 29.6 8.0 8.0 8.0 26.6 82.8 82.8 10.0 1.0 1.253 29.6 8.0 8.0 8.0 26.6 82.8 82.8 10.0 1.0 1.253 29.6 8.0 8.0 8.0 1.0 1.253 29.6 8.0 8.0 8.0 1.0 1.253 29.6 8.0 8.0 8.0 1.0 1.253 29.6 8.0 8.0 8.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.0 1.253 29.6 8.0 8.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	SR2	Sunny	Moderate	12:40	4.0	Middle	-	0.1		-	-	-	-	-	-	-	-	-		-	4.6		3	821461	814148
SR3 Fine Moderate 11:51 8.3 Surface 1.0 0.1 339 3.0 0.1 266 29.0 29.0 8.0 8.0 25.0 25.0 78.7 78.7 78.7 5.6 5.6 5.6 5.1 3 3 4 4 4 817185 8789 SR8 Sunny Moderate 13:09 4.2 Middle 13:09 4.2 Middle 2. 1.0 1.0 2.2 3.8 SR8 Sunny Moderate 13:09 4.2 Middle 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.						5."	3.0			29.0	20.0	8.0		25.0	05.0	78.7		5.6		5.1	1	3			
SR3 Fine Moderate Hodge Fine Hodge H						Bottom	3.0	0.1	266	29.0	29.0		8.0		25.0		78.7		5.6	5.1	1	3			
SR3 Fine Moderate I1:51						0 (1.0	0.1	339	30.0	20.0	8.0		22.9		89.6		6.0		2.4		3			ĺ
SR3 Fine Moderate 11:51 8.3 Middle 4.2 0.1 325 29.8 29.8 8.0 8.0 8.0 23.8 23.8 85.5 5.7 5.7 5.9 2.5 2.5 2.5 3.1 3 3 822145 807579 Moderate 11:51 8.3 Middle 4.2 0.1 325 29.8 29.8 29.8 29.8 8.0 8.0 20.7 29.7 8.0 8.0 25.0 25.0 83.2 25.5 5.5 3.1 3 3 3 822145 807579						Surface	1.0	0.2	338		30.0		8.0		23.0		89.6		- 0		1				
SR3 Fine Moderate 11:51 8.3 Middle 4.2 0.2 322 29.8 29.8 8.0 8.0 23.8 25.0 5.7 2.5 2.7 3 3 82745 80/579 Bottom 7.3 0.1 350 29.7 29.7 8.0 8.0 8.0 25.0 25.0 83.2 83.2 5.5 5.5 3.1 3 3 82745 80/579 SR4A Fine Moderate 10:21 8.5 Middle 4.3 0.0 256 29.6 29.6 8.0 8.0 26.6 26.6 82.8 82.8 5.5 5.5 5.5 5.5 4.4 4 817185 807799 SR8 Sunny Moderate 13:09 4.2 Middle 7. 5 0.1 253 29.6 10.0 - 29.2 29.2 8.1 8.1 8.1 22.6 22.6 82.8 82.8 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.2 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	000						4.2	0.1	325	29.8	20.0	8.0		23.8		85.5	05.5		5.9	2.5	1	3			
SR4A Fine Moderate 10:21 8.5 Surface 1.0 0.0 253 29.7 29.7 8.0 8.0 25.0 25.0 83.2 83.2 5.5 5.5 3.1 3 3	SR3	Fine	Moderate	11:51	8.3	Middle	4.2	0.2			29.8		8.0		23.8		85.5				2.7		3	822145	807579
SR4A Fine Moderate 10:21 8.5 Surface 1.0 0.0 253 29.7 29.7 8.0 8.0 8.0 25.0 25.0 83.2 83.2 5.5 5.5 3.1 3 3						5."					00.7	_			05.0						1				
SR4A Fine Moderate 10:21 8.5 Surface 1.0 0.1 260 29.7 29.7 8.0 8.0 8.0 26.3 28.3 83.3 83.4 5.5 5.5 5.5 5.5 5.5 9.7 8.3 4 4 817185 807799 SR8 Sunny Moderate 13:09 4.2 Middle 15:00						Bottom	7.3	0.1	350	29.7	29.7		8.0		25.0		83.2		5.5	3.1	1	3			
SR4A Fine Moderate 10:21 8.5 Middle 1.0 0.1 260 29.7 29.7 8.0 8.0 26.3 26.3 83.3 83.4 5.5 5.5 5.5 5.5 5.4 9.7 9.7 9.7 9.7 9.8 8.0 8.0 26.6 29.6 29.6 8.0 8.0 26.6 26.6 26.6 26.6 26.6 26.6 26.6 26						0.1					00.7	8.0		26.3		83.4	00.4	5.5		5.4		2			
SR4A Fine Moderate 10:21 8.5 Middle 4.3 - 256 29.6 8.0 8.0 26.6 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7 26.7						Surface	1.0	0.1	260		29.7		8.0		26.3		83.4			5.4	1	3			
SR4 Fine Moderate 10:21 8.5 Middle 4.3 0.0 256 29.6 29.6 8.0 8.0 26.6 26.6 26.6 82.8 82.8 5.5 9.8 8.74 4 817185 807799 Bottom T.5 0.1 253 29.6 29.6 8.0 8.0 26.7 26.7 26.7 83.3 83.4 5.5 5.5 9.7 4.4 817185 807799 Sufface T.0 - - - - - - - - -	0044				0.5		4.3	-	256	29.6	20.0	8.0		26.6		82.8		5.4	5.5	9.7		4	.	0.17.05	
SR8 Sunny Moderate 13:09 4.2 Middle 13:09 4.2 Middle 3.2 29.1 29.1 29.1 8.1 8.1 24.3 24.3 78.1 78.3 9.6 9.7 4.3 4 820381 811613	SR4A	Fine	Moderate	10:21	8.5	Middle	4.3	0.0	256		29.6		8.0		26.6		82.8			9.8	8.3		4	817185	807799
SR8 Sunny Moderate 13:09 4.2 Middle 13:09 4.2 Middle 3.2 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1						D. H	7.5	0.1	253	29.6	00.0	8.0	0.0	26.7	00.7	83.3	00.4	5.5		9.7	1	4			
SR8 Sunny Moderate 13:09 4.2 Middle 1.0 29.2 29.2 8.1 8.1 22.7 22.6 81.9 82.3 10.2 10.3 3.9 4.1 - 4 820381 811613						Bottom					29.6		8.0		26.7		83.4		5.5		1				
SR8 Sunny Moderate 13:09 4.2 Middle 1.0 29.2 29.2 8.1 8.1 22.7 22.0 81.9 82.3 10.2 10.3 3.9 4.1 - 4.1 - 4 820381 811613						Conform	1.0	-	-	29.2	20.0	8.1	0.4	22.6	22.0	82.6	00.0	10.3		3.8		5			
SR8 Sunny Moderate 13:09 4.2 Middle						Suпасе		-	-		29.2		8.1		22.6		82.3		40.0		1				
Bottom 3.2 29.1 29.1 8.1 8.1 24.3 24.3 78.1 78.3 9.6 9.7 4.3 4	CDO	C	Maderia	40.00	4.0	M* J.U.		-	-				Ì	-					10.3		1			000004	044040
	SK8	Sunny	woderate	13:09	4.2	Ivildale	-	-	-	-	-	-	1 -	-	-	-	-	-		-	4.1	-	4	820381	811613
						Detter	3.2	-	-	29.1	20.4	8.1	C.4	24.3	24.0	78.1	70.0	9.6	0.7	4.3	1	4			
						Bottom					29.1		8.1		24.3		78.3		9.7		1				

Water Quality Monitoring Results on 10 October 23 during Mid-Ebb Tide

water Qua	,	U			10 October 23	during wid-		_					_											
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy	olved gen	Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Bep	ar (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	209	27.0	27.0	8.1	8.1	31.9	31.9	91.8	91.8	6.1		2.7		5			
					Surface	1.0	0.4	215	27.0	27.0	8.1	0.1	31.9	31.9	91.8	91.0	6.1	5.9	2.8		4			
C1	Cloudy	Moderate	10:06	8.8	Middle	4.4	0.3	193	27.5	27.5	8.1	8.1	32.7	32.7	86.3	86.3	5.7	3.9	7.1	5.9	4	5	815635	804223
O1	Cloudy	Moderate	10.00	0.0	Middle	4.4	0.4	194	27.5	27.5	8.1	0.1	32.7	52.7	86.3	00.5	5.7		7.0	5.5	5		013033	004223
					Bottom	7.8	0.4	189	27.5	27.5	8.1	8.1	32.7	32.7	86.4	86.5	5.7	5.7	7.7		5			
					Bottom	7.8	0.4	195	27.5	27.0	8.1	0.1	32.7	02.7	86.6	00.0	5.7	0.7	8.2		5			
					Surface	1.0	0.4	164	27.1	27.1	8.1	8.1	31.5	31.5	91.6	91.6	6.1		3.0		3			
					Curiaco	1.0	0.4	169	27.1	27.1	8.1	0.1	31.5	01.0	91.5	01.0	6.1	6.1	3.0		3			
C2	Cloudy	Moderate	11:37	11.2	Middle	5.6	0.4	179	27.0	27.0	8.1	8.1	31.8	31.8	90.2	90.3	6.0	0.1	6.8	5.8	3	3	825691	806963
02	o.ouu,	moderate	11.01		- Trindaio	5.6	0.4	183	27.0	20	8.1	0	31.8	01.0	90.3	00.0	6.0		6.9	0.0	3		02000.	000000
					Bottom	10.2	0.5	166	26.9	26.9	8.1	8.1	31.7	31.7	91.0	91.2	6.1	6.1	7.1		3			
						10.2	0.5	162	26.9		8.1	• • • •	31.7	*	91.4	*	6.1		7.8		3			
					Surface	1.0	0.2	60	26.9	26.9	8.2	8.2	29.8	29.8	84.7	84.7	5.7		2.8		4			
						1.0	0.2	65	26.9		8.2		29.8		84.7	_	5.7	5.7	2.8		4			
C3	Cloudy	Rough	09:03	10.6	Middle	5.3	0.3	72	27.0	27.0	8.2	8.2	30.0	30.0	83.5	83.5	5.6		3.9	3.6	5	5	822125	817816
	,	3				5.3	0.3	74	27.0		8.2		30.0		83.4		5.6		3.9		5			
					Bottom	9.6	0.2	87	27.3	27.3	8.2	8.2	30.6	30.6	81.0	81.0	5.4	5.4	4.0	-	5			
						9.6	0.2	85	27.3		8.2		30.6		81.0		5.4		4.1		5			
					Surface	1.0	0.3	186	27.1	27.1	8.1	8.1	32.4	32.4	87.4	87.4	5.8		3.8		4			
						1.0	0.3	193	27.1		8.1				87.3		5.8	5.8	3.8	-	5			
IM1	Cloudy	Moderate	10:30	6.8	Middle	3.4	0.3	210 204	27.1 27.1	27.1	8.1	8.1	32.4 32.4	32.4	87.5 87.5	87.5	5.8 5.8		4.2 4.4	5.8	<u>4</u> 5	5	818361	806436
						5.8	0.3	173	27.1										9.0	-	5			
					Bottom	5.8	0.3	173	27.0	27.0	8.1	8.1	32.4	32.4	88.1 88.3	88.2	5.9 5.9	5.9	9.4		5			
-						1.0	0.3	216	27.1		8.1		32.4		88.3		5.9		3.3		6			
					Surface	1.0	0.4	212	27.1	27.1	8.1	8.1	32.4	32.4	88.3	88.3	5.9		3.2	-	5			
						3.5	0.4	218	27.1		8.1		32.4		88.0		5.8	5.9	5.4	-	4			
IM2	Cloudy	Moderate	10:36	6.9	Middle	3.5	0.4	222	27.1	27.1	8.1	8.1	32.4	32.4	87.9	88.0	5.8		5.4	5.7	5	5	819187	806233
						5.9	0.4	186	27.1		8.1		32.4		86.3		5.7		8.2	-	4			
					Bottom	5.9	0.4	186	27.1	27.1	8.1	8.1	32.4	32.4	86.2	86.3	5.7	5.7	8.5	-	5			
						1.0	0.2	211	26.7		8.1		31.5		92.0		6.2		2.6	†	5			1
					Surface	1.0	0.2	206	26.7	26.7	8.1	8.1	31.5	31.5	92.0	92.0	6.2	1	2.6	1	4			
l						3.9	0.2	192	26.8		8.1		31.7		90.9		6.1	6.2	3.2	1	5	_		
IM7	Cloudy	Moderate	11:05	7.8	Middle	3.9	0.2	189	26.8	26.8	8.1	8.1	31.7	31.7	90.9	90.9	6.1	1	3.3	3.2	4	5	821354	806845
					5	6.8	0.2	210	26.8		8.1		31.9		90.5		6.1		3.7	1	6			
					Bottom	6.8	0.2	203	26.8	26.8	8.1	8.1	31.9	31.9	90.5	90.5	6.1	6.1	4.0	1	6			
					•																			•

DA: Depth-Averaged

Water Quality Monitoring Results on 10 October 23 during Mid-Ebb Tide

Water Quar		• <u></u>	110 011		10 October 23	during wid-																		
Monitoring	Weather	Sea	Sampling	Water	Complies Danie	.h (m)	Current Speed	Current	Water Te	emperature (°C)	p⊦	н	Salin	ity (ppt)		aturation %)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	.ii (M)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
İ					Surface	1.0	0.3	113	26.2	26.2	8.2	8.2	28.0	20.0	87.8	87.8	6.1		1.8		3			
					Suriace	1.0	0.3	119	26.2	26.2	8.2	8.∠	28.0	28.0	87.7	87.8	6.1	6.4	1.8		2			
IMAO	Claudu	Davish	40.44	0.7	Middle	4.4	0.3	105	26.1	26.1	8.2	0.0	29.4	20.4	86.8	86.8	6.0	6.1	2.5	3.9	4	2	000004	000005
IM10	Cloudy	Rough	10:41	8.7	Middle	4.4	0.3	103	26.1	20.1	8.2	8.2	29.4	29.4	86.7	80.8	6.0		2.4	3.9	2	3	822231	809825
					Bottom	7.7	0.3	149	26.2	26.2	8.2	8.2	29.5	29.5	82.1	82.1	5.6	5.6	7.4		3			
					Bottom	7.7	0.3	152	26.2	20.2	8.2	0.2	29.5	29.5	82.1	02.1	5.6	5.6	7.4		4			
					Surface	1.0	0.3	97	26.1	26.1	8.2	0.2	28.3	20.2	90.1	90.1	6.2		2.0		6			
					Surface	1.0	0.4	96	26.1	20.1	8.2	8.2	28.3	28.3	90.1	90.1	6.2	6.1	1.9		5			
IM11	Cloudy	Rough	10:26	7.6	Middle	3.8	0.3	109	26.1	26.1	8.2	8.2	29.2	29.2	87.7	87.7	6.0	0.1	1.6	3.0	4	5	821503	810552
IIVIII	Cloudy	Rough	10.20	7.0	Middle	3.8	0.3	104	26.1	20.1	8.2	0.2	29.2	25.2	87.6	01.1	6.0		1.6	3.0	5	3	021303	010332
					Bottom	6.6	0.3	78	26.2	26.2	8.2	8.2	29.5	29.5	84.5	84.5	5.8	5.8	5.3		4			
					DULLUITI	6.6	0.3	85	26.2	20.2	8.2	0.2	29.5	29.5	84.5	04.3	5.8	5.6	5.4		5			
					Surface	1.0	0.5	108	26.3	26.3	8.2	8.2	28.3	28.4	84.1	84.1	5.8		2.4		5			
					Surface	1.0	0.5	108	26.3	20.3	8.2	0.2	28.4	20.4	84.1	04.1	5.8	5.8	2.4		4			
IM12	Cloudy	Rough	10:18	7.2	Middle	3.6	0.5	90	26.4	26.4	8.2	8.2	29.0	29.0	83.9	83.9	5.7	5.0	2.4	3.9	4	4	821152	811531
110112	Cloudy	Rougii	10.16	1.2	Middle	3.6	0.4	92	26.4	20.4	8.2	0.2	29.0	29.0	83.9	03.9	5.7		2.4	3.9	3	4	021132	011331
					Bottom	6.2	0.4	101	26.6	26.6	8.2	8.2	29.4	29.4	82.4	82.4	5.6	5.6	7.0		4			
					BUILDIII	6.2	0.5	104	26.6	20.0	8.2	0.2	29.4	29.4	82.4	02.4	5.6	5.6	7.0		3			
					Surface	1.0	0.0	99	26.1	26.1	8.2	8.2	28.5	28.5	88.7	88.7	6.1		1.1		7			
					Surface	1.0	0.1	94	26.1	20.1	8.2	0.2	28.5	20.5	88.6	00.7	6.1	6.1	1.1		6			
SR1A	Cloudy	Moderate	09:39	4.9	Middle	2.5	-	83	-		-		-		-		-	0.1	-	1.1	-	6	819979	812654
SKIA	Cloudy	Moderate	05.55	4.5	Middle	2.5	0.1	79	-		-		-	_	-	_	-		-	1.1	-	U	019979	012034
					Bottom	3.9	0.0	78	26.2	26.2	8.2	8.2	28.9	28.9	87.8	87.8	6.0	6.0	1.2		5			
					Dottom	3.9	0.1	82	26.2	20.2	8.2	0.2	28.9	20.3	87.8	07.0	6.0	0.0	1.2		6			
					Surface	1.0	0.3	46	26.5	26.5	8.2	8.2	28.8	28.8	85.8	85.8	5.9		2.4		5			
					Ourlace	1.0	0.4	41	26.5	20.5	8.2	0.2	28.8	20.0	85.8	00.0	5.9	5.9	2.4		5			
SR2	Cloudy	Rough	09:21	5.2	Middle	-	0.3	64	-	_	-	_	-	_	-		-	5.5	-	2.9	-	5	821485	814148
OILE	Cloudy	Rough	03.21	5.2	Middle	-	0.3	70	-		-		-		-	_	-		-	2.5	-	3	021403	014140
					Bottom	4.2	0.4	23	26.9	26.9	8.2	8.2	29.7	29.7	85.1	85.1	5.8	5.8	3.4		4			
					Bottom	4.2	0.3	23	26.9	20.0	8.2	0.2	29.8	20.7	85.1	00.1	5.8	0.0	3.5		5			
					Surface	1.0	0.4	178	26.8	26.8	8.1	8.1	31.4	31.4	91.9	91.9	6.2		2.3		3			
					Gundec	1.0	0.4	181	26.8	20.0	8.1	0.1	31.4	01.4	91.8	01.0	6.2	6.1	2.4		4			
SR3	Cloudy	Moderate	11:12	8.3	Middle	4.2	0.4	165	26.8	26.8	8.1	8.1	31.8	31.8	89.4	89.4	6.0	0	4.4	5.5	4	4	822146	807577
0.10	O.ouuy	moderate		0.0	madio	4.2	0.3	162	26.8	20.0	8.1	0	31.9	01.0	89.3	00.1	6.0		4.8	0.0	5	•	022110	001011
					Bottom	7.3	0.4	176	26.9	26.9	8.1	8.1	32.2	32.2	88.8	88.8	5.9	5.9	9.8		4			
					50110111	7.3	0.4	182	26.9	20.0	8.1	0	32.2	02.2	88.8	00.0	5.9	0.0	9.4		5			
					Surface	1.0	0.0	71	27.2	27.2	8.1	8.1	31.6	31.6	85.1	85.0	5.7		3.6		5			
					54	1.0	0.1	68	27.2		8.1		31.7	00	84.9	00.0	5.7	5.6	3.7		6			
SR4A	Cloudy	Moderate	09:41	8.2	Middle	4.1	0.0	86	27.5	27.5	8.1	8.1	32.7	32.7	83.7	83.7	5.5		4.9	4.4	5	6	817212	807799
				J	30.0	4.1	0.0	83	27.5		8.1		32.7		83.6		5.5		4.8		6	-		
					Bottom	7.2	0.0	80	27.5	27.5	8.1	8.1	32.7	32.7	83.5	83.5	5.5	5.5	4.6		6			
			<u> </u>		• • • •	7.2	0.1	86	27.5	-	8.1	-	32.7	-	83.5		5.5		4.6		7			
					Surface	1.0	-	-	26.2	26.2	8.2	8.2	28.2	28.1	86.8	86.8	6.0		1.8		5			
						1.0	-	-	26.2		8.2	_	28.1		86.8		6.0	6.0	1.8		5			
SR8	Cloudy	Moderate	10:09	4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	1.8	-	5	820376	811623
	,					-	-	-	-		-		-		-		-		-		-	-		
					Bottom	3.7	-	-	26.2	26.2	8.2	8.2	28.3	28.2	84.9	84.9	5.9	5.9	1.7	1	6			
						3.7	-	-	26.2	-	8.2	-	28.2		84.9		5.9		1.7		5			

Water Quality Monitoring Results on 10 October 23 during Mid-Flood Tide

Water Quar	ity wonit	oring Resu	112 011		10 October 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	34	27.1	27.1	8.1	0.4	32.3	32.3	89.7	89.7	6.0		9.3		8			
					Surface	1.0	0.3	40	27.1	27.1	8.1	8.1	32.3	32.3	89.7	89.7	6.0	0.0	9.4	1	7			
04	Observation	Madazi	47.04	0.0	NAC-1-II-	4.3	0.3	31	27.1	07.4	8.1	0.4	32.3	00.0	88.8	88.7	5.9	6.0	10.2	9.9	6	-	045500	004000
C1	Cloudy	Moderate	17:34	8.6	Middle	4.3	0.2	36	27.1	27.1	8.1	8.1	32.3	32.3	88.6	88.7	5.9		10.1	9.9	7	7	815596	804233
					D-11	7.6	0.2	22	27.0	07.0	8.1	0.4	32.2	00.0	87.2	07.4	5.8	F 0	10.1	1	6			
					Bottom	7.6	0.3	26	27.0	27.0	8.1	8.1	32.2	32.2	87.2 86.9	87.1	5.8	5.8	10.0	1	7			
					0	1.0	0.1	193	27.1	07.4	8.1	0.4	31.6	04.0	91.3	04.0	6.1		2.5		6			
					Surface	1.0	0.2	198	27.1	27.1	8.1	8.1	31.6	31.6	91.2	91.3	6.1	C 4	2.5	1	4			
C2	Claudu	Madazata	40.04	44.5	Middle	5.8	0.1	197	27.0	27.0	8.1	8.1	31.8	31.8	90.0	90.0	6.0	6.1	3.2	4.0	4	4	825666	806947
62	Cloudy	Moderate	16:01	11.5	ivildale	5.8	0.1	200	27.0	27.0	8.1	0.1	31.8	31.8	89.9	90.0	6.0		3.3	4.0	4	4	823000	806947
					Bottom	10.5	0.1	187	26.9	26.9	8.1	8.1	31.8	31.8	89.4	89.5	6.0	6.0	6.1	1	4			
					DOLLOTT	10.5	0.1	190	26.9	26.9	8.1	0.1	31.8	31.0	89.5	09.5	6.0	0.0	6.1		4			
					Surface	1.0	0.4	250	26.0	26.0	8.2	8.2	25.7	25.6	88.8 88.8	88.8	6.2		1.6		3			
					Surface	1.0	0.4	250	26.0	26.0	8.2	0.2	25.6	25.6	88.8	00.0	6.2	5.9	1.6		3			
СЗ	Cloudy	Rough	18:03	10.1	Middle	5.1	0.3	259	27.0	27.0	8.2	8.2	29.8	29.8	83.1 83.1	83.1	5.6	5.5	2.6	3.5	4	4	822114	817819
03	Cloudy	Rough	10.03	10.1	Middle	5.1	0.4	262	27.0	27.0	8.2	0.2	29.8	25.0	83.1	03.1	5.6		2.7	3.3	3	4	022114	017019
					Bottom	9.1	0.4	253	27.3	27.3	8.2 8.2	8.2	30.5	30.5	81.6 81.6	81.6	5.5 5.5	5.5	6.2		4			
					Dottom	9.1	0.4	260	27.3	21.5	8.2	0.2	30.5	30.3	81.6	01.0	5.5	0.0	6.2		5			
					Surface	1.0	0.2	22	27.1	27.1	8.1	8.1	32.4	32.4	87.1	87.0	5.8		6.7		7			
					Curiace	1.0	0.2	27	27.1	27.1	8.1	0.1	32.4	02.4	86.8	07.0	5.8	5.8	6.9		6			
IM1	Cloudy	Moderate	17:08	6.4	Middle	3.2	0.2	4	27.2	27.2	8.1	8.1	32.5	32.5	86.0	86.1	5.7	0.0	8.4	8.5	4	5	818363	806443
	o.ouu,	moderate	17.00	0	madio	3.2	0.2	3	27.2		8.1	0	32.5	02.0	86.2	00.1	5.7		8.6	0.0	5	ŭ	0.0000	000110
					Bottom	5.4	0.2	37	27.2	27.2	8.1	8.1	32.5	32.5	87.9 88.1	88.0	5.8	5.8	10.4		4			
						5.4	0.2	31	27.2		8.1	• • • •	32.5				5.8		10.2		4			
					Surface	1.0	0.1	20	27.1	27.1	8.1	8.1	32.4	32.4	86.4	86.5	5.7		8.6		3			
						1.0	0.1	17	27.1		8.1		32.4		86.5		5.7	5.8	8.7		3			
IM2	Cloudy	Moderate	17:04	7.2	Middle	3.6	0.1	2	27.1	27.1	8.1	8.1	32.4	32.4	87.0 87.1	87.1	5.8		10.8	9.3	3	4	819168	806234
	,					3.6	0.1	6	27.1		8.1		32.4				5.8		10.8		4			
					Bottom	6.2	0.1	11	27.1	27.1	8.1	8.1	32.4	32.4	87.8 87.9	87.9	5.8 5.8	5.8	8.4		4			
						6.2	0.1	357	27.1		8.1		32.4						8.5		4			
					Surface	1.0	0.1	281	26.8	26.8	8.1	8.1	31.5	31.5	91.8 91.7	91.8	6.2		2.8	1	6			
						1.0	0.1	284	26.8		8.1		31.5				6.2	6.2	2.9	4	6			
IM7	Cloudy	Moderate	16:29	7.8	Middle	3.9	0.1	291	26.8	26.8	8.1	8.1	31.7	31.7	91.5	91.5	6.1		3.4	3.3	5	5	821363	806854
						3.9	0.1	295	26.8		8.1		31.7		91.5		6.1		3.4	4	6			
					Bottom	6.8	0.1	272	26.8 26.8	26.8	8.1 8.1	8.1	31.8	31.8	92.4 92.6	92.5	6.2	6.2	3.6	4	5 4			
DA: Dopth Avor						ხ.გ	0.1	269	26.8		8.1		31.8		92.6		6.2		3.7		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 10 October 23 during Mid-Flood Tide

Water Quar	,	orning recou	110 011		10 October 23	during wid-	oou	uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep		Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	268	26.4	26.4	8.2	8.2	28.2	28.3	89.4	89.4	6.3		1.8		5			
					Surface	1.0	0.3	260	26.4	20.4	8.2	0.2	28.3	20.3	89.4	09.4	6.3	6.2	1.8		4			
IM10	Cloudy	Bough	16:08	8.4	Middle	4.2	0.2	284	26.1	26.1	8.2	8.2	29.2	29.2	87.4	87.4	6.1	0.2	2.5	3.2	6	5	822251	809817
110110	Cloudy	Rough	10.00	0.4	Middle	4.2	0.1	289	26.1	20.1	8.2	0.2	29.2	25.2	87.4	07.4	6.1		2.6	3.2	5	3	022231	009017
					Bottom	7.4	0.2	292	26.2	26.2	8.2	8.2	29.5	29.5	85.6	85.7	5.9	5.9	5.1		6			
					Dottom	7.4	0.2	292	26.2	20.2	8.2	0.2	29.5	25.5	85.7	03.7	5.9	3.9	5.1		6			
					Surface	1.0	0.3	271	26.1	26.1	8.2	8.2	29.4	29.4	87.5	87.5	6.0		2.6		5			
					Gunace	1.0	0.3	269	26.1	20.1	8.2	0.2	29.4	23.4	87.5	07.5	6.0	6.0	2.6		6			
IM11	Cloudy	Rough	16:23	7.1	Middle	3.6	0.3	268	26.1	26.1	8.2	8.2	29.5	29.5	87.3	87.3	6.0	0.0	3.5	3.7	6	6	821510	810550
	Oloudy	rtougii	10.20	7	Wildelie	3.6	0.3	272	26.1	20.1	8.2	0.2	29.5	20.0	87.3	07.0	6.0		3.5	0.7	6	Ü	021010	010000
					Bottom	6.1	0.3	262	26.1	26.1	8.2	8.2	29.6	29.6	86.8	86.8	6.0	6.0	5.0		6			
					Bottom	6.1	0.3	263	26.1	20.1	8.2	0.2	29.6	20.0	86.8	00.0	6.0	0.0	5.0		6			
					Surface	1.0	0.3	288	26.1	26.1	8.2	8.2	29.3	29.3	88.2	88.2	6.1		1.9		6			
						1.0	0.3	286	26.1		8.2		29.3		88.2		6.1	6.1	1.9		7			
IM12	Cloudy	Rough	16:33	6.9	Middle	3.5	0.3	290	26.1	26.1	8.2	8.2	29.4	29.4	87.4	87.4	6.0		3.0	3.0	6	6	821169	811515
	,	- 3				3.5	0.4	290	26.1		8.2		29.4		87.4		6.0		3.0		6	-		
					Bottom	5.9	0.4	307	26.1	26.1	8.2	8.2	29.5	29.5	87.1	87.1	6.0	6.0	4.1		5			
						5.9	0.4	301	26.1		8.2		29.5		87.1		6.0		4.1		5			
					Surface	1.0	0.0	212	26.2	26.2	8.2	8.2	29.5	29.5	90.9	90.9	6.2		4.5		8			
						1.0	0.0	215	26.2		8.2		29.5		90.9		6.2	6.2	4.5		9			
SR1A	Cloudy	Rough	17:14	4.5	Middle	2.3	0.0	184	-	-	-	-	-	-	-	-	-		-	4.0	-	7	819982	812661
						2.3	0.0	187	-		-		-				-		- 0.4		-			
					Bottom	3.5 3.5	0.0	189 196	26.1 26.1	26.1	8.2	8.2	29.5 29.5	29.5	86.9 86.9	86.9	6.0	6.0	3.4		6 5			
					l	1.0	0.1	227	26.6		8.2		28.8		87.1		5.9		1.1		6		l I	
					Surface	1.0	0.0	221	26.6	26.6	8.2	8.2	28.8	28.8	87.1	87.1	5.9		1.1		5			
						-	0.0	240	-		-		-		-		-	5.9			-			
SR2	Cloudy	Rough	17:36	4.8	Middle	-	0.1	242	-	-		-	-	-	-	-	-			1.4	-	5	821471	814185
						3.8	0.1	209	27.1		8.2		30.0		84.5		5.7		1.8		5			
					Bottom	3.8	0.2	213	27.1	27.1	8.2	8.2	30.0	30.0	84.5	84.5	5.7	5.7	1.8		5			
						1.0	0.1	293	26.8		8.1		31.5		91.5		6.1		2.6		4			
					Surface	1.0	0.1	288	26.8	26.8	8.1	8.1	31.5	31.5	91.4	91.5	6.1		2.7		4			
						4.2	0.0	292	26.8		8.1		31.7		90.5		6.1	6.1	3.6		4			
SR3	Cloudy	Moderate	16:24	8.4	Middle	4.2	0.0	284	26.8	26.8	8.1	8.1	31.8	31.7	90.5	90.5	6.1		3.6	3.7	4	4	822127	807581
					D. II.	7.4	0.0	325	26.8	00.0	8.1	0.4	31.9	04.0	91.1	04.0	6.1	0.4	4.7		4			
					Bottom	7.4	0.0	326	26.7	26.8	8.1	8.1	32.0	31.9	91.2	91.2	6.1	6.1	4.8		5			
					Curtoso	1.0	0.0	224	27.1	27.2	8.1	0.1	28.9	20.7	83.6	02.7	5.7		5.9		5			
					Surface	1.0	0.0	227	27.2	27.2	8.1	8.1	28.5	28.7	83.8	83.7	5.7	5.7	6.0		6			
SR4A	Cloudy	Moderate	17:59	8.4	Middle	4.2	0.0	244	27.3	27.3	8.1	8.1	32.5	32.5	85.5	85.7	5.7	5.1	8.3	8.3	4	5	817182	807832
SIN4A	Cloudy	wouterate	17.58	0.4	iviidale	4.2	0.0	247	27.3	۵۱.۵	8.1	0.1	32.5	32.3	85.8	03.7	5.7		9.0	0.3	5	3	01/102	00/032
					Bottom	7.4	0.1	234	27.3	27.3	8.1	8.1	32.4	32.4	87.9	88.1	5.8	5.8	10.1		4			
					Dottom	7.4	0.1	239	27.3	21.5	8.1	0.1	32.4	32.4	88.2	00.1	5.8	5.0	10.7		3			
					Surface	1.0	-	-	26.1	26.1	8.2	8.2	29.3	29.3	89.3	89.4	6.1		2.1		5			
					Juliace	1.0	-	-	26.1	20.1	8.2	0.2	29.3	20.0	89.5	00.4	6.1	6.1	2.1		5			
SR8	Cloudy	Rough	16:43	4.1	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.1	-	2.5	-	5	820413	811640
5.10	C.Sudy	cugii	. 5.40	"."	····adio	-	-	-	-		-		-		-		-		-	0	-	3	323710	3.10-10
					Bottom	3.1	-	-	26.1	26.1	8.2	8.2	29.4	29.4	87.8	87.8	6.0	6.0	2.8		4			
DA: Donth Avor						3.1	-	-	26.1	=***	8.2		29.4		87.8		6.0		2.8		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 October 23 during Mid-Ebb Tide

Water Quan	ity wont	oring Resu	its on		12 October 23	auring Mia-		:																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	-	рН	Salin	ity (ppt)	DO S	aturation (%)	Disso		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.3	196	27.7	07.7	8.1	0.4	32.9	32.9	92.3	92.3	6.1		4.3		2			
					Surface	1.0	0.3	197	27.7	27.7	8.1	8.1	32.9	32.9	92.2	92.3	6.1	0.4	4.2		3			
C4	C	Davah	40.50	7.0	Middle	3.9	0.3	216	27.5	27.5	8.1	8.1	32.9	32.9	90.6	90.6	6.0	6.1	5.8	5.7	4	2	045020	804252
C1	Sunny	Rough	10:59	7.8	ivildale	3.9	0.3	219	27.5	27.5	8.1	0.1	32.9	32.9	90.6	90.6	6.0		5.8	5.7	3	3	815638	804252
					Bottom	6.8	0.3	193	27.5	27.5	8.1	8.1	32.9	32.9	90.7	90.7	6.0	6.0	7.1		4			
					Bollom	6.8	0.3	196	27.5	27.5	8.1	8.1	32.9	32.9	90.7	90.7	6.0	6.0	7.1		3			
					Surface	1.0	0.5	170	27.3	27.3	8.1	8.1	32.5	32.5	89.5	89.5	5.9		4.6		3			
					Surface	1.0	0.5	172	27.3	21.3	8.1	0.1	32.5	32.3	89.4	09.5	5.9	5.9	4.6		2			
C2	Sunny	Davah	12:28	0.5	Middle	4.8	0.4	170	27.1	27.1	8.1	8.1	32.7	32.7	88.4	88.4	5.9	5.9	5.0	5.8	4	3	825689	806947
62	Sunny	Rough	12:28	9.5	ivildale	4.8	0.5	169	27.1	27.1	8.1	0.1	32.7	32.7	88.4 88.4	88.4	5.9 5.9		5.0	5.8	3	3	823689	806947
					Bottom	8.5	0.5	141	27.2	27.2	8.1	8.1	32.7	32.7	88.1	88.1	5.8	5.8	7.7		3			
					Bollom	8.5	0.5	148	27.2	21.2	8.1	0.1	32.7	32.7	88.1	88.1	5.8	5.8	7.7		4			
					Surface	1.0	0.2	82	27.4	27.4	8.1	8.1	30.4	30.4	81.0	80.9	5.4		1.8		3			
					Surface	1.0	0.3	88	27.4	27.4	8.1	0.1	30.4	30.4	80.8	80.9	5.4	5.4	2.0		4			
C3	Fin a	Madazata	11:51	40.4	Middle	5.2	0.3	89	27.1	27.1	8.1	8.1	30.5	30.5	79.5	79.5	5.3 5.3	5.4	3.6	3.4	3	3	822118	817810
C3	Fine	Moderate	11:51	10.4	ivildale	5.2	0.2	83	27.1	27.1	8.1	0.1	30.5	30.5	79.5 79.5	79.5	5.3		3.5	3.4	3	3	822118	817810
					Bottom	9.4	0.3	49	27.1	27.1	8.1	8.1	30.5	30.5	80.6 80.7	80.7	5.4	5.4	4.9		3			
					BUILUIII	9.4	0.3	48	27.1	27.1	8.1	0.1	30.5	30.5	80.7	60.7	5.4	5.4	4.7		4			
					Surface	1.0	0.2	194	27.7	27.7	8.1	8.1	32.9	32.9	93.0	93.1	6.1		4.2		2			
					Surface	1.0	0.2	192	27.7	21.1	8.1	0.1	32.9	32.9	93.1	93.1	6.1	6.1	4.2		2			
IM1	Sunny	Moderate	11:25	7.3	Middle	3.7	0.3	197	27.5	27.5	8.1	8.1	32.9	32.9	90.5	90.5	6.0	0.1	5.4	6.2	2	2	818338	806446
IIVII	Outliny	Woderate	11.23	7.5	Wildale	3.7	0.3	198	27.5	21.5	8.1	0.1	32.9	32.3	90.5	30.5	6.0		5.4	0.2	3	2	010330	000440
					Bottom	6.3	0.3	176	27.4	27.4	8.1	8.1	32.9	32.9	89.4	89.4	5.9	5.9	9.1		2			
					Dottom	6.3	0.3	171	27.4	27.4	8.1	0.1	32.9	02.0	89.4	00.4	5.9	0.0	9.1		3			
					Surface	1.0	0.3	212	27.8	27.8	8.1	8.1	32.7	32.7	93.2	93.2	6.1		3.4		3			
					Cullade	1.0	0.3	208	27.8	27.0	8.1	0.1	32.7	02.1	93.2	55.2	6.1	6.0	3.4]	2			
IM2	Sunny	Moderate	11:33	7.5	Middle	3.8	0.3	213	27.5	27.5	8.1	8.1	32.9	32.9	90.4	90.4	5.9 5.9	0.0	5.3	5.4	2	3	819188	806252
IIVIZ	Curiny	Moderate	11.55	7.5	widale	3.8	0.3	216	27.5	27.0	8.1	0.1	32.9	02.0		55.4			5.4	3.4	<2	3	010100	000202
					Bottom	6.5	0.3	215	27.4	27.4	8.1	8.1	32.9	32.9	89.0	89.0	5.9	5.9	7.4]	4			
					Dottom	6.5	0.3	213	27.4	27.7	8.1	0.1	32.9	02.0	89.0	55.0	5.9	0.0	7.4		3			
		. <u></u>			Surface	1.0	0.2	189	27.8	27.8	8.1	8.1	32.7	32.7	93.6	93.6	6.1		7.3		3			
					Cullade	1.0	0.2	189	27.8	27.0	8.1	0.1	32.7	02.1	93.5	55.0	6.1	6.1	7.3]	3			
IM7	Sunny	Rough	12:01	7.8	Middle	3.9	0.2	212	27.8	27.8	8.1	8.1	32.8	32.8	92.6 92.6	92.6	6.1	0.1	3.7	6.3	3	3	821327	806851
11417	Curiny	rtougn	12.01	7.0	widale	3.9	0.2	217	27.8	27.0	8.1	0.1	32.8	02.0		52.0	6.1		3.8	3.5	2	3	021021	000001
					Bottom	6.8	0.2	172	27.4	27.4	8.1	8.1	32.9	32.9	89.1	89.1	5.9	5.9	8.0	1	3			
DA: Dooth Aver					Dottom	6.8	0.2	165	27.4	21.7	8.1	0.1	32.9	JZ. J	89.1	00.1	5.9	5.5	8.0		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 October 23 during Mid-Ebb Tide

	,	oring Resu			12 October 23	during wild-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salini	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запріінд Бер	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	142	26.8	26.8	8.1	8.1	29.7	29.7	82.9	82.9	5.6		1.0		4			
					Surface	1.0	0.3	134	26.8	20.8	8.1	0.1	29.7	29.7	82.8	82.9	5.6	5.6	1.0		3			
IM10	Fine	Moderate	13:04	8.2	Middle	4.1	0.3	123	26.8	26.8	8.1	8.1	29.8	29.8	82.4	82.4	5.6	5.0	1.6	1.6	4	4	822254	809823
IIVITO	1 1116	Moderate	13.04	0.2	Middle	4.1	0.3	124	26.8	20.0	8.1	0.1	29.8	25.0	82.4	02.4	5.6		1.5	1.0	4	4	022234	009023
					Bottom	7.2	0.3	133	26.8	26.8	8.1	8.1	29.8	29.8	83.0	83.1	5.6	5.6	2.1		4			
					Dottom	7.2	0.3	129	26.8	20.0	8.1	0.1	29.8	25.0	83.1	03.1	5.6	3.0	2.2		4			
					Surface	1.0	0.3	111	26.9	26.9	8.1	8.1	29.7	29.7	83.8	83.8	5.7		1.4		4			
					Gunace	1.0	0.3	111	26.9	20.5	8.1	0.1	29.7	23.7	83.8	00.0	5.7	5.7	1.4		4			
IM11	Fine	Moderate	12:58	7.6	Middle	3.8	0.3	119	26.8	26.8	8.1	8.1	29.7	29.7	83.7	83.8	5.7	5.7	1.5	1.6	5	5	821480	810550
	1 1110	Woderate	12.00	7.0	Middle	3.8	0.3	123	26.8	20.0	8.1	0.1	29.7	20.7	83.8	00.0	5.7		1.4	1.0	5	O	021400	010000
					Bottom	6.6	0.3	97	26.9	27.0	8.1	8.1	29.7	29.7	84.9	85.1	5.7	5.8	2.1		6			
					Bottom	6.6	0.3	96	27.0	27.0	8.1	0.1	29.7	20.7	85.2	00.1	5.8	0.0	2.1		5			
					Surface	1.0	0.3	116	26.9	26.9	8.1	8.1	29.7	29.7	87.4	87.7	5.9		1.1		4			
						1.0	0.4	109	26.9		8.1		29.7		87.9		5.9	5.9	1.1		5			
IM12	Fine	Moderate	12:52	8.4	Middle	4.2	0.3	90	26.9	26.9	8.1	8.1	29.7	29.7	87.4	87.7	5.9		1.3	1.2	4	4	821166	811495
	-		-			4.2	0.3	92	26.9		8.1		29.7		87.9		5.9		1.3		4			
					Bottom	7.4	0.4	101	26.9	26.9	8.1	8.1	29.7	29.7	89.2	89.9	6.0	6.1	1.3		4			
						7.4	0.4	95	26.9		8.1		29.7		90.6		6.1		1.4		3			
					Surface	1.0	0.0	111	27.3	27.3	8.1	8.1	30.4	30.4	81.0	81.0	5.4		2.2		2			
						1.0	0.0	107	27.2		8.1		30.4		81.0		5.4	5.4	2.1		4			
SR1A	Fine	Moderate	12:30	4.4	Middle	2.2	0.0	102	-	-	-	-	-	-	-	-	-		-	2.5	-	3	819971	812658
						2.2	0.1	104	-		-		-		-		-		-		-			
					Bottom	3.4	0.0	83	27.3 27.3	27.3	8.1 8.1	8.1	30.3	30.3	81.5 81.8	81.7	5.5 5.5	5.5	2.8		3			
						1.0	0.0	86 42	27.3										2.9					
					Surface	1.0	0.4	36	27.3	27.3	8.1 8.1	8.1	30.4	30.4	81.3 81.3	81.3	5.4 5.4		1.8	-	3			
						-	0.4	41	-		-		30.4		- 01.3		-	5.4	-		-			
SR2	Fine	Moderate	12:18	3.8	Middle	-	0.4	42	-	-	F :		-	-	-	-			-	1.9	-	3	821475	814165
						2.8	0.4	55	27.2		8.1		30.4		82.1		5.5		2.1	-	2			
					Bottom	2.8	0.4	59	27.2	27.2	8.1	8.1	30.4	30.4	82.2	82.2	5.5	5.5	2.1	-	2			
						1.0	0.4	177	27.4		8.1		32.4		91.5		6.0		2.1		5			
					Surface	1.0	0.4	182	27.4	27.4	8.1	8.1	32.4	32.4	91.5	91.5	6.0		2.1	1	4			
	_					4.1	0.4	179	27.3		8.1		32.4		91.1		6.0	6.0	2.3	1	6			
SR3	Sunny	Rough	12:09	8.1	Middle	4.1	0.4	183	27.3	27.3	8.1	8.1	32.4	32.4	91.1	91.1	6.0		2.4	4.2	5	5	822126	807577
						7.1	0.4	179	27.3		8.1		32.9		89.7		5.9		8.3		4			
					Bottom	7.1	0.4	186	27.3	27.3	8.1	8.1	32.9	32.9	89.7	89.7	5.9	5.9	8.3		5			
					Curt	1.0	0.0	98	27.4	27.4	8.1		32.2	20.0	88.8	00.0	5.9		4.1	Ì	4			
					Surface	1.0	0.1	103	27.3	27.4	8.1	8.1	32.2	32.2	88.8	88.8	5.9	E 0	4.0	1	4			
SR4A	Current	Moderate	10.07	0.0	M:-J-J-	4.8	0.0	104	27.2	27.2	8.2	0.0	32.7	20.7	88.6	00.0	5.9	5.9	5.5	5.4	3	A .	817212	807810
SK4A	Sunny	Moderate	10:37	9.6	Middle	4.8	0.0	98	27.2	27.2	8.2	8.2	32.7	32.7	88.6	88.6	5.9		5.4	5.4	4	4	81/212	807810
					Bottom	8.6	0.0	113	27.2	27.2	8.2	8.2	32.8	32.8	88.5	88.5	5.9	5.9	6.7	1	3			
					DOLLOITI	8.6	0.1	115	27.2	۷۱.۷	8.2	0.2	32.8	32.0	88.5	00.0	5.9	5.9	6.6		4			
					Surface	1.0	-	-	27.4	27.4	8.1	8.1	30.3	30.3	82.5	82.5	5.5		1.7		2			
					Sunace	1.0	-	-	27.4	21.4	8.1	0.1	30.3	30.3	82.5	02.5	5.5	5.5	1.7		4			
SR8	Fine	Moderate	12:47	5.0	Middle	-	-	-	-		-		-		-	_	-	ວ.ວ	-	2.4	-	3	820374	811612
SINO	1 1110	iviouerate	12.41	3.0	Mildule	-	-	-	-		-	<u> </u>	-		-		-		-	2.4	-	J	020314	011012
					Bottom	4.0	-	-	27.1	27.1	8.1	8.1	30.3	30.3	83.6	83.9	5.6	5.6	3.1]	3			
DA: Donth Avon					Dottom	4.0	-	-	27.1	27.1	8.1	0.1	30.3	00.0	84.1	00.0	5.6	0.0	3.1		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 October 23 during Mid-Flood Tide

Water Quar	ity wont	oring Resu	its on		12 October 23	auring Mia-	riooa ii	ue																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	рН		Salini	ty (ppt)		aturation %)	Disso	olved gen	Turbidity	/(NTU)	Suspende (mg		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value Ave	erage	Value	Average		Average			Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.3	42	27.7		8.1		31.6		88.3		5.8		1.9		3			
					Surface	1.0	0.3	49	27.7	27.7	8.1	3.1	31.6	31.6	88.2	88.3	5.8		1.8	1	3			
	_					3.7	0.3	31	27.8		8.1		32.0		87.0		5.7	5.8	3.6		3			
C1	Sunny	Moderate	18:01	7.3	Middle	3.7	0.3	37	27.8	27.8	8.1	3.1	32.0	32.0	87.0	87.0	5.7		3.5	3.1	2	3	815620	804246
						6.3	0.2	7	27.7		0.1		32.0		86.8		5.7		4.0		4			
					Bottom	6.3	0.3	2	27.7	27.7	8.1	3.1	32.0	32.0	86.8	86.8	5.7	5.7	4.0		3			
					0 /	1.0	0.0	195	27.5	07.5	8.0		30.9		86.1		5.7		2.3		3			
					Surface	1.0	0.0	192	27.5	27.5	8.0	3.0	31.0	30.9	86.1	86.1	5.7		2.4		2			
00	0	Madazi	40.07	0.0	Middle	4.5	0.1	186	27.5	07.5	8.0		31.5	04.4	85.9	85.9	5.7	5.7	2.6	3.8	4		825658	000040
C2	Sunny	Moderate	16:37	8.9	Middle	4.5	0.1	180	27.5	27.5	8.0	3.0	31.4	31.4	85.9	85.9	5.7	1	2.6	3.8	2	3	825658	806948
					Bottom	7.9	0.0	178	27.4	27.4	8.0	3.0	31.9	31.9	83.7	83.7	5.5	5.5	6.4		4			
					DULLOITI	7.9	0.1	180	27.4	27.4	8.0	5.0	31.9	31.9	83.7	03.7	5.5	5.5	6.4		3			
					Surface	1.0	0.4	263	26.9	26.9	8.1	3.1	30.0	30.0	82.6	82.6	5.6		2.7		3			
					Sunace	1.0	0.3	258	26.9	20.9	8.1). I	30.1	30.0	82.6	02.0	5.6	5.6	2.7		4			
СЗ	Fine	Moderate	17:32	9.4	Middle	4.7	0.4	278	26.9	26.9	8.1	3.1	30.2	30.2	83.1	83.1	5.6	5.0	3.2	3.6	3	4	822103	817817
00	0	moderate	17.02	0	madio	4.7	0.4	283	26.9	20.0	8.1		30.2	00.2	83.0	00	5.6		3.2	0.0	4		022.00	0
					Bottom	8.4	0.4	276	26.9	26.9	8.1	3.1	30.2	30.2	87.8	88.1	5.9	6.0	4.8		3			
						8.4	0.3	270	26.9		8.1				88.4		6.0		4.9		4			
					Surface	1.0	0.1	7	27.6	27.6	8.1	3.1	31.9	31.9	85.8	85.8	5.7	l	4.5		4			
						1.0	0.1	9	27.6		8.1		31.9		85.8		5.7	5.7	4.6	4	4			
IM1	Sunny	Moderate	17:41	6.9	Middle	3.5 3.5	0.2 0.1	32 34	27.5 27.5	27.5	8.1	3.1	31.9 31.9	31.9	84.6 84.7	84.7	5.6 5.6	ł	5.3 5.3	5.4	4	3	818371	806479
						5.9	0.1	11	27.6										6.3	-	4			
					Bottom	5.9	0.1	12	27.6	27.6	8.1	3.1	31.9 31.9	31.9	85.7 85.7	85.7	5.7 5.7	5.7	6.3	-	2			
						1.0	0.1	310	27.6		0.1		31.9		85.5		5.6		3.8	-	3			
					Surface	1.0	0.1	315	27.6	27.6	8.1	3.1	31.9	31.9	85.5	85.5	5.6		3.8	-	2			
						3.6	0.1	289	27.5		0.1		31.9		84.4		5.6	5.6	6.2		2			
IM2	Sunny	Moderate	17:28	7.1	Middle	3.6	0.1	284	27.5	27.5	8.1	3.1	31.9	31.9	84.4	84.4	5.6		6.2	6.1	2	3	819167	806243
						6.1	0.1	306	27.5		8.1		32.0		83.9		5.6		8.4	1	3			
					Bottom	6.1	0.1	309	27.5	27.5	8.1	3.1	32.0	32.0	84.0	84.0	5.6	5.6	8.4		3			
					0 /	1.0	0.1	288	27.6	07.0	8.1			24.0	85.4	05.0	5.6		5.7		4			
					Surface	1.0	0.1	287	27.6	27.6	8.1	3.1	31.9 31.9	31.9	85.2	85.3	5.6		5.7		4			
IM7	Cuppy	Modorata	17:07	7.5	Middle	3.8	0.1	284	27.5	27.5	8.1	3.0	32.0	32.0	84.4	84.4	5.6	5.6	8.4		3	4	821352	806846
IIVI7	Sunny	Moderate	17:07	7.5	iviidale	3.8	0.1	285	27.5	27.5	8.0	5.0	32.0	32.0	84.4	84.4	5.6	1	8.5	8.0	4	4	8∠1352	806846
					Bottom	6.5	0.2	268	27.5	27.5	8.0	3.0	32.0	32.0	84.4	84.5	5.6	5.6	9.9		4			
					DOLLOIT	6.5	0.2	267	27.5	21.5	8.0	,.0	32.0	32.0	84.5	04.5	5.6	3.0	9.9		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 October 23 during Mid-Flood Tide

water Quar	ity monit	orning recou	110 011		12 October 23	during wild-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curfosa	1.0	0.2	228	27.0	27.0	8.1	0.4	29.7	20.7	83.2	83.2	5.6		1.4		3			
					Surface	1.0	0.2	223	27.0	27.0	8.1	8.1	29.7	29.7	83.1	83.2	5.6	5.6	1.4	1	2			
IM10	Fine	Moderate	16:35	9.0	Middle	4.5	0.2	249	26.8	26.8	8.1	8.1	29.7	29.7	82.6	82.6	5.6	0.0	1.7	1.6	4	3	822253	809817
IIVITO	Fille	Moderate	10.55	9.0	Middle	4.5	0.2	253	26.8	20.0	8.1	0.1	29.7	29.1	82.5	02.0	5.6		1.7	1.6	4	3	022233	009017
					Bottom	8.0	0.2	260	26.8	26.8	8.1	8.1	29.7	29.7	82.5	82.6	5.6	5.6	1.8	1	3			
					Bollom	8.0	0.2	257	26.8	20.0	8.1	0.1	29.7	29.7	82.7	02.0	5.6	5.6	1.8		4			
					Surface	1.0	0.3	254	27.1	27.1	8.1	8.1	29.7	29.7	83.4	83.4	5.6		1.3		3			
					Sunace	1.0	0.3	253	27.1	27.1	8.1	0.1	29.7	25.1	83.4	3	5.6	5.6	1.3		2			
IM11	Fine	Moderate	16:40	7.2	Middle	3.6	0.3	280	26.8	26.8	8.1	8.1	29.7	29.7	82.4	82.4	5.6	3.0	1.6	1.7	4	3	821524	810549
IIVIII	1 1116	Wioderate	10.40	7.2	Wildale	3.6	0.3	280	26.8	20.0	8.1	0.1	29.7	23.1	82.3	02.7	5.6		1.7	1.7	3	3	021024	010545
					Bottom	6.2	0.3	279	26.9	26.9	8.1	8.1	29.7	29.7	82.7	82.9	5.6	5.6	2.3		3			
					Bollom	6.2	0.4	276	26.9	20.9	8.1	0.1	29.7	25.1	83.0	02.9	5.6	3.0	2.3		3			
					Surface	1.0	0.3	271	27.0	27.0	8.1	8.1	29.7	29.7	82.7	82.6	5.6		1.7		3			
					Sunace	1.0	0.3	269	26.9	27.0	8.1	0.1	29.8	25.1	82.5	02.0	5.6	5.6	1.8		3			
IM12	Fine	Moderate	16:44	8.2	Middle	4.1	0.2	295	26.8	26.8	8.1	8.1	29.9	29.9	81.8	81.8	5.5	5.0	2.9	2.7	3	3	821158	811510
IIVITZ	1 1116	Woderate	10.44	0.2	Middle	4.1	0.2	297	26.8	20.0	8.1	0.1	29.9	25.5	81.8	01.0	5.5		3.0	2.7	2	3	021130	011310
					Bottom	7.2	0.3	288	26.8	26.8	8.1	8.1	29.9	29.9	81.9	81.9	5.5	5.5	3.4		2			
					Bollom	7.2	0.4	288	26.8	20.0	8.1	0.1	29.9	25.5	81.9	01.9	5.5	5.5	3.3		2			
					Surface	1.0	0.0	171	26.8	26.8	8.1	8.1	29.6	29.6	84.8	84.9	5.7		1.8		2			
					Sunace	1.0	0.0	168	26.8	20.0	8.1	0.1	29.6	29.0	85.0	04.5	5.8	5.8	1.8		2			
SR1A	Fine	Moderate	17:03	4.6	Middle	2.3	0.0	199	-	_	-		-	_	-	_	-	5.0	-	2.4	-	3	819979	812662
OKIA	1 1116	Woderate	17.00	4.0	Middle	2.3	0.1	201	-		-		-		-		-		-	2.7	-	3	013373	012002
					Bottom	3.6	0.1	169	26.7	26.7	8.1	8.1	29.6	29.6	87.6	87.8	6.0	6.0	3.1		2			
					Dottom	3.6	0.1	167	26.7	20.7	8.1	0.1	29.6	23.0	88.0	07.0	6.0	0.0	3.1		4			
					Surface	1.0	0.1	240	26.9	26.9	8.1	8.1	29.6	29.6	83.4	83.4	5.6		1.6		3			
					Curiace	1.0	0.1	238	26.9	20.0	8.1	0.1	29.6	20.0	83.3	00.4	5.6	5.6	1.6		4			
SR2	Fine	Moderate	17:15	4.0	Middle	-	0.1	249	-	_	-		-	_	-	_	-	5.0	-	2.1	-	3	821472	814144
ORE	1 1110	Wioderate	17.10	4.0	Wildale	-	0.2	242	-		-		-		-		-		-		-	o	021472	014144
					Bottom	3.0	0.1	224	26.8	26.8	8.1	8.1	29.6	29.6	83.6	83.7	5.7	5.7	2.7		3			
					Bottom	3.0	0.2	228	26.8	20.0	8.1	0.1	29.6	20.0	83.7	00.7	5.7	0.7	2.7		3			
					Surface	1.0	0.1	298	27.5	27.5	8.1	8.1	31.2	31.2	86.0	86.0	5.7		2.4	<u> </u>	<2			
					Canada	1.0	0.1	294	27.5	20	8.1	0	31.2	02	86.0	00.0	5.7	5.7	2.4		<2			
SR3	Sunny	Moderate	16:58	7.8	Middle	3.9	0.1	275	27.5	27.5	8.1	8.1	31.5	31.5	85.5	85.5	5.7	0	2.6	4.0	<2	2	822124	807582
0.10	ou,	moderate	10.00	7.0	madio	3.9	0.1	273	27.5	20	8.1	0	31.5	01.0	85.4	00.0	5.7		2.6		<2	-	022.2.	00.002
					Bottom	6.8	0.1	307	27.4	27.4	8.1	8.0	31.9	31.9	82.9	82.9	5.5	5.5	7.1	<u> </u>	2			
					Bottom	6.8	0.1	309	27.4		8.0	0.0	31.9	01.0	82.9	02.0	5.5	0.0	7.2		3			
					Surface	1.0	0.0	184	27.6	27.6	8.1	8.1	31.4	31.4	88.4	88.4	5.8		1.6	<u> </u>	4			
					Gundoo	1.0	0.0	185	27.6	20	8.1	0	31.4	0	88.3	00	5.8	5.8	1.7	<u> </u>	4			
SR4A	Sunny	Moderate	18:24	9.2	Middle	4.6	0.0	205	27.8	27.8	8.1	8.1	31.8	31.8	87.6	87.6	5.8		2.0	2.0	4	4	817207	807794
0.1	ou,	moderate	10.21	0.2	madio	4.6	0.1	202	27.8	20	8.1	0	31.8	01.0	87.6	07.0	5.8		2.0		4	·	011201	007707
					Bottom	8.2	0.0	207	27.8	27.8	8.1	8.1	32.0	32.0	87.0	87.0	5.7	5.7	2.3	1	4			
			<u> </u>			8.2	0.1	209	27.8	-	8.1		32.0		87.0		5.7		2.3	<u> </u>	5			
					Surface	1.0	-	-	27.1	27.1	8.1	8.1	29.7	29.7	83.5	83.5	5.6		1.3	1	3			
						1.0	-	-	27.1		8.1		29.7		83.4		5.6	5.6	1.3	1	4			
SR8	Fine	Moderate	16:48	4.0	Middle	-	-	-	-	-	-	4 -	-	-	-	_	-		-	1.3	-	3	820402	811621
				-		-	-	-	-		-	1	-		-		-		-	1	-	-		
					Bottom	3.0	-	-	27.1	27.2	8.1	8.1	29.7	29.7	83.4	83.4	5.6	5.6	1.3	1	3			
						3.0	-	-	27.2		8.1	1	29.7		83.4		5.6		1.3		3			

Water Quality Monitoring Results on 14 October 23 during Mid-Ebb Tide

water Quai	ity wont	Jilliy Nesu	เเร บก		14 October 23	auring Mia-	EDD IIU	7																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	200	27.6	27.6	8.1	8.1	33.1	33.1	92.8	92.8	6.1		5.2		8			
					Surface	1.0	0.3	192	27.6	27.0	8.1	8.1	33.1	33.1	92.7	92.8	6.1	6.0	5.2		8			
C1	Common	Madausta	12:41	0.0	Middle	4.2	0.4	220	27.4	27.4	8.1	8.1	33.1	33.1	90.2	90.2	5.9	6.0	5.2	5.3	8	8	815596	804263
CI	Sunny	Moderate	12:41	8.3	ivildale	4.2	0.4	221	27.4	27.4	8.1	8.1	33.1	33.1	90.1	90.2	5.9	1	5.2	5.3	8	8	815596	804263
					Bottom	7.3	0.4	193	27.3	27.3	8.1	8.1	33.1	33.1	86.7	86.7	5.7	5.7	5.5		8			
					Bollom	7.3	0.5	193	27.3	21.3	8.1	8.1	33.1	33.1	86.7	86.7	5.7	5.7	5.5		8			
					Surface	1.0	0.2	163	27.5	27.5	8.1	8.1	32.2	32.2	91.9	91.9	6.1		3.8		5			
					Surface	1.0	0.2	165	27.5	27.5	8.1	0.1	32.2	32.2	91.9	91.9	6.1	6.1	3.8		5			
C2	Sunny	Moderate	11:12	9.1	Middle	4.6	0.2	163	27.5	27.5	8.1	8.1	32.7	32.7	92.8	92.8	6.1	0.1	6.6	6.0	5	5	825678	806966
02	Suring	Moderate	11.12	9.1	ivildule	4.6	0.2	160	27.5	27.5	8.1	0.1	32.7	32.1	92.8	92.0	6.1		6.6	6.0	6	3	023070	800900
					Bottom	8.1	0.2	176	27.3	27.3	8.1	8.1	32.9	32.9	90.7	90.7	6.0	6.0	7.7		5			
					Bottom	8.1	0.2	178	27.3	27.3	8.1	0.1	32.9	32.9	90.7	90.7	6.0	0.0	7.8		6			
					Surface	1.0	0.3	81	27.0	27.0	8.1	8.1	30.2	30.2	81.5	81.5	5.5		1.4		4			
					Surface	1.0	0.4	83	27.0	27.0	8.1	0.1	30.2	30.2	81.5	01.5	5.5	5.5	1.5		4			
С3	Fine	Moderate	12:06	9.0	Middle	4.5	0.4	65	27.0	27.0	8.1	8.1	30.2	30.2	81.6	81.7	5.5	3.3	2.6	2.4	4	4	822124	817805
CS	Fille	Moderate	12.00	9.0	ivildule	4.5	0.3	70	27.0	27.0	8.1	0.1	30.2	30.2	81.7	01.7	5.5		2.5	2.4	4	4	022124	617605
					Bottom	8.0	0.3	74	27.0	27.0	8.1	8.1	30.2	30.2	81.8 82.1	82.0	5.5	5.5	3.3		4			
					Bottom	8.0	0.3	73	27.0	27.0	8.1	0.1	30.2	30.2	82.1	02.0	5.5	3.3	3.3		4			
					Surface	1.0	0.3	190	27.6	27.6	8.1	8.1	32.7	32.7	95.6	95.7	6.3		2.8		4			
					Surface	1.0	0.2	192	27.6	27.0	8.1	0.1	32.7	32.1	95.7	93.1	6.3	6.3	2.8		5			
IM1	Sunny	Moderate	12:15	7.1	Middle	3.6	0.3	184	27.6	27.6	8.1	8.1	32.7	32.7	93.7	93.7	6.2	0.5	3.1	3.8	4	4	818371	806472
livi i	Outliny	Moderate	12.10	/	Wildle	3.6	0.3	179	27.6	27.0	8.1	0.1	32.8	52.7	93.7	33.1	6.2		3.2	5.0	4	7	010371	000472
					Bottom	6.1	0.2	181	27.5	27.5	8.1	8.1	33.1	33.1	91.1	91.1	6.0	6.0	5.5		4			
					Bottom	6.1	0.2	183	27.5	27.5	8.1	0.1	33.1	30.1	91.1	31.1	6.0	0.0	5.5		4			
					Surface	1.0	0.2	193	27.5	27.5	8.1	8.1	32.7	32.7	92.2	92.3	6.1		3.8		6			
					Ourrace	1.0	0.2	186	27.5	27.5	8.1	0.1	32.7	32.1	92.3	32.3	6.1	6.1	3.7		6			
IM2	Sunny	Moderate	12:04	7.2	Middle	3.6	0.1	175	27.5	27.5	8.1	8.1	32.8	32.8	92.6	92.6	6.1	0.1	3.9	5.2	5	5	819167	806231
IIVIZ	Guilly	Moderate	12.04	7.2	ivildale	3.6	0.1	170	27.5	27.5	8.1	0.1	32.8	32.0	92.6	32.0	6.1		3.9	5.2	5	3	013107	000231
					Bottom	6.2	0.2	188	27.3	27.3	8.1	8.1	33.1	33.1	90.0	90.1	5.9	5.9	8.1		5			
					Bottom	6.2	0.3	181	27.3	27.0	8.1	0.1	33.1	00.1	90.1	00.1	5.9	0.0	8.1		5			
					Surface	1.0	0.1	131	27.4	27.4	8.1	8.1	32.6	32.6	90.2	90.2	6.0		4.2		5			
					Ouridoo	1.0	0.1	138	27.4	21.7	8.1	0.1	32.6	02.0	90.2	55.2	6.0	6.0	4.1	1	5			
IM7	Sunny	Moderate	11:42	7.8	Middle	3.9	0.2	136	27.2	27.3	8.1	8.1	32.6	32.6	88.8	88.8	5.9	0.0	4.6	5.2	5	5	821333	806839
	Curry	Moderate	11.72	1	IVIIGGIO	3.9	0.1	137	27.3	21.0	8.1	0.1	32.6	02.0	88.8	00.0	5.9		4.6	J 0.2	5	Ĭ	32 1000	000003
					Bottom	6.8	0.2	107	27.2	27.2	8.1	8.1	32.8	32.8	88.8	88.8	5.9	5.9	6.8	1	5			
					Dottom	6.8	0.2	102	27.2	21.2	8.1	0.1	32.8	02.0	88.8	00.0	5.9	0.0	6.8		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 14 October 23 during Mid-Ebb Tide

Water Qua	,	g	1		14 COLOBEI EC	auring mia			,														1	1
Monitoring	Weather	Sea	Sampling	Water	Compling Don	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.3	96	26.6	00.0	8.1	0.4	30.0	00.0	83.6	00.0	5.7		5.0		4			
					Surface	1.0	0.3	93	26.6	26.6	8.1	8.1	30.0	30.0	83.6	83.6	5.7		5.0		3			
13.440	F 1	Madana	44.00	0.0	NAC-L-III-	4.4	0.3	103	26.6	00.0	8.1	0.4	30.1	00.4	83.7	00.0	5.7	5.7	5.5		4		000050	000047
IM10	Fine	Moderate	11:09	8.8	Middle	4.4	0.2	108	26.6	26.6	8.1	8.1	30.1	30.1	83.8	83.8	5.7		5.4	5.6	4	4	822250	809847
					D-11	7.8	0.2	84	26.6	00.0	8.1	0.4	30.0	00.0	84.1	04.0	5.7		6.3		4			
					Bottom	7.8	0.2	85	26.6	26.6	8.1	8.1	30.0	30.0	84.2	84.2	5.7	5.7	6.3		4			
					Surface	1.0	0.3	79	26.7	20.7	8.1	0.4	30.2	20.0	87.2	07.2	5.9		3.0		3			
					Surface	1.0	0.3	75	26.7	26.7	8.1	8.1	30.2	30.2	87.3	87.3	5.9	6.0	3.1		3			
IM11	Fine	Moderate	11:14	8.0	Middle	4.0	0.3	102	26.7	26.7	8.1	8.1	30.3	30.3	89.0	89.1	6.0	6.0	3.8	3.7	3	3	821499	810557
IIVI I	Fille	Woderate	11.14	6.0	Middle	4.0	0.4	104	26.7	20.7	8.1	0.1	30.3	30.3	89.1	09.1	6.0		3.8	3.7	3	3	021499	610337
					Bottom	7.0	0.4	109	26.7	26.7	8.1	8.1	30.3	30.3	90.1	90.2	6.1	6.1	4.3		3			
					DOLLOTT	7.0	0.4	115	26.7	20.7	8.1	0.1	30.3	30.3	90.2	90.2	6.1	0.1	4.3		3			
					Surface	1.0	0.3	83	26.7	26.7	8.1	8.1	30.3	30.3	87.1	87.1	5.9		3.2		3			
					Surface	1.0	0.3	89	26.7	20.7	8.1	0.1	30.3	30.3	87.1	07.1	5.9	5.9	3.2		3			
IM12	Fine	Moderate	11:17	8.2	Middle	4.1	0.3	85	26.7	26.7	8.1	8.1	30.3	30.3	87.2	87.3	5.9	5.9	5.0	4.5	3	3	821143	811536
IIVI I Z	Fille	Woderate	11.17	0.2	Middle	4.1	0.3	80	26.6	20.7	8.1	0.1	30.3	30.3	87.3	07.3	5.9		5.0	4.5	3	3	021143	611336
					Bottom	7.2	0.3	109	26.6	26.6	8.1	8.1	30.3	30.3	88.7	90.3	6.0	6.1	5.4		3			
					Dottom	7.2	0.3	114	26.6	20.0	8.1	0.1	30.3	30.3	91.8	90.5	6.2	0.1	5.4		3			
					Surface	1.0	0.0	42	26.7	26.7	8.1	8.1	30.0	30.0	87.5	87.5	5.9		4.1		4			
					Surface	1.0	0.1	34	26.6	20.7	8.1	0.1	30.0	30.0	87.5	07.5	5.9	5.9	4.0		4			
SR1A	Fine	Moderate	11:30	4.6	Middle	2.3	0.0	30	-	_	-		-		-	1 .	-	5.5	-	4.2	-	4	819982	812663
OICIA	1 1110	Wiodelate	11.00	4.0	Middle	2.3	0.0	36	-		-		-		-		-		-	٦.٢	-	-	010002	012000
					Bottom	3.6	0.0	24	26.6	26.6	8.1	8.1	30.0	30.0	87.4	87.4	5.9	5.9	4.2		3			
					Bottom	3.6	0.1	21	26.6	20.0	8.1	0.1	30.0	00.0	87.4	0	5.9	0.0	4.3		4			
					Surface	1.0	0.3	60	27.0	27.0	8.1	8.1	29.9	29.9	90.4	90.5	6.1		1.4		4			
					Gundoo	1.0	0.3	62	27.0	20	8.1	0	29.9	20.0	90.6	00.0	6.1	6.1	1.4		3			
SR2	Fine	Moderate	11:41	4.2	Middle	-	0.3	71	-	-	-	_	-	_	-	. I	-	0	-	2.1	-	4	821467	814161
0.12		moderate			madio	-	0.3	65	-		-		-		-		-		-		-	·	021101	0
					Bottom	3.2	0.3	48	26.9	26.9	8.1	8.1	29.9	29.9	92.2	92.4	6.2	6.3	2.8		4			
					=	3.2	0.3	55	26.9		8.1		29.9		92.6		6.3		2.7		4			
					Surface	1.0	0.2	152	27.5	27.5	8.1	8.1	32.5	32.5	92.2	92.2	6.1		3.3		5			
						1.0	0.2	153	27.5	_	8.1		32.5		92.2		6.1	6.1	3.3		5			
SR3	Sunny	Moderate	11:33	8.2	Middle	4.1	0.2	155	27.5	27.5	8.1	8.1	32.8	32.8	93.0	93.0	6.1		6.1	5.5	5	5	822135	807577
	,					4.1	0.2	152	27.5		8.1		32.8		93.0		6.1		6.1		4			
					Bottom	7.2	0.2	136	27.4	27.4	8.1	8.1	32.8	32.8	91.6	91.6	6.0	6.0	7.3		4			
						7.2	0.2	136	27.4		8.1		32.8		91.6		6.0		7.3		4			
					Surface	1.0	0.1	64	27.5	27.5	8.1	8.1	32.3	32.3	86.2	86.2	5.7		4.1	4	5			
						1.0	0.1	64	27.5		8.1		32.4		86.2		5.7	5.8	4.1		5			
SR4A	Sunny	Moderate	13:05	9.8	Middle	4.9	0.1	60	27.2	27.2	8.1	8.1	33.0	33.0	89.1	89.1	5.9		5.1	5.0	4	4	817202	807821
	,					4.9	0.1	66	27.2		8.1		33.0		89.1		5.9		5.1		4			
					Bottom	8.8	0.0	62	27.2	27.2	8.1	8.1	33.0	33.0	87.8	87.8	5.8	5.8	5.8	4	4			
			<u> </u>			8.8	0.0	54	27.2		8.1	1	33.0		87.8		5.8		5.7	1	4			
					Surface	1.0	-	-	26.7	26.7	8.1	8.1	30.0	30.0	87.4	87.4	5.9		4.6	4	5			
						1.0	-	-	26.7		8.1	-	30.0		87.4		5.9	5.9	4.6	4	4			
SR8	Fine	Moderate	11:21	5.0	Middle	-	-	-	-	-	-		_	-	-	∔ -	-		-	5.1	-	4	820387	811626
						-	-	-	- 00.7			1	-						-	4	-			
					Bottom	4.0	-	-	26.7	26.7	8.1	8.1	30.0	30.0	87.8	87.9	5.9	6.0	5.7	4	4			
						4.0	-	-	26.7		8.1		30.0		88.0		6.0		5.7		4			

Water Quality Monitoring Results on 14 October 23 during Mid-Flood Tide

water Quai	ity wonit	oning Resu	เรงเก		14 October 23	auring Mia-	rioda H	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Deat	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxyg		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
			İ		0.7	1.0	0.2	42	27.4	07.4	8.1		33.1		91.8	24.0	6.0		7.3	Ì	12			
					Surface	1.0	0.2	37	27.4	27.4	8.1	8.1	33.1	33.1	91.8	91.8	6.0	_	7.3	1	11			
9.		5 .	05.00			3.6	0.3	12	27.3	07.0	8.1		33.1		90.6		6.0	6.0	8.1	1	11		0.45005	
C1	Fine	Rough	05:39	7.1	Middle	3.6	0.2	5	27.3	27.3	8.1	8.1	33.1	33.1	90.6	90.6	6.0	ŀ	8.1	8.3	12	12	815609	804246
					5 "	6.1	0.2	54	27.2	27.0	8.0		33.1				5.9		9.4		12			
					Bottom	6.1	0.2	49	27.2	27.2	8.0	8.0	33.1	33.1	89.5 89.5	89.5	5.9	5.9	9.5	1	13			
					Cuntana	1.0	0.3	0	27.4	27.4	8.1	0.4	32.6	32.6	88.2	88.2	5.8		6.4		5			İ
					Surface	1.0	0.3	5	27.4	27.4	8.1	8.1	32.6	32.6	88.2 88.2	88.2	5.8	5.8	6.4		5			
C2	Fine	Rough	07:16	8.2	Middle	4.1	0.3	336	27.2	27.2	8.1	8.1	32.6	32.6	87.7	87.7	5.8	5.0	6.5	7.1	5	5	825658	806961
C2	FIIIE	Rougii	07.16	0.2	ivildule	4.1	0.3	340	27.2	21.2	8.1	0.1	32.6	32.0	87.7	01.1	5.8		6.5] /.1	4	ວ	020000	000901
					Bottom	7.2	0.3	8	27.3	27.3	8.1	8.1	32.7	32.7	87.8	87.8	5.8	5.8	8.3]	5			
					Dollom	7.2	0.3	8	27.3	21.0	8.1	0.1	32.7	JZ.1	87.8	07.0	5.8	5.0	8.4		4			
					Surface	1.0	0.4	261	27.0	27.0	8.1	8.1	30.6	30.6	78.5 78.4	78.5	5.3		2.1		4			
					54	1.0	0.4	260	27.0	20	8.1	J	30.6	00.0		. 0.0	5.3	5.3	2.1	1	4			
СЗ	Fine	Moderate	07:17	10.0	Middle	5.0	0.4	268	27.0	27.0	8.1	8.1	30.6	30.6	78.5	78.5	5.3		3.2	3.4	4	4	822101	817800
						5.0	0.4	266	27.0		8.1		30.6		78.5		5.3		3.2	4	3			
l					Bottom	9.0	0.4	255	27.1	27.1	8.1 8.1	8.1	30.7	30.7	79.4 79.5	79.5	5.3	5.3	4.9	4	3			
						9.0	0.4	248	27.0			l I							4.9	1	4			<u> </u>
l					Surface	1.0 1.0	0.2	3 356	27.5 27.5	27.5	8.1 8.1	8.1	33.1 33.1	33.1	92.3 92.2	92.3	6.1 6.1	}	6.0	1	10 9			
l						3.4	0.1	358	27.5		8.1		33.1				6.0	6.1	5.8	1	9			
IM1	Fine	Moderate	06:02	6.8	Middle	3.4	0.1	-	27.4	27.4	8.1	8.1	33.1	33.1	90.5	90.6	6.0	F	5.8	5.6	10	9	818358	806478
I					_	5.8	0.1	350	27.2		8.1		33.0				F 7		5.1	1	9			
					Bottom	5.8	0.1	348	27.2	27.2	8.1	8.1	33.0	33.0	86.7 86.7	86.7	5.7	5.7	5.1	1	9			
					Ourford	1.0	0.1	354	27.5	07.5	8.1	0.4	33.1	00.4		00.7	6.1		3.1		10			
					Surface	1.0	0.1	350	27.5	27.5	8.1	8.1	33.1	33.1	92.7 92.7	92.7	C 4	6.1	3.2	1	10			
IMO	Fine	Modoroto	06:14	7.0	Middle	3.6	0.1	5	27.4	27.4	8.1	0.1	33.1	33.1	91.6	91.7	6.0	0.1	6.7	6.4	9	0	910160	806242
IM2	Fine	Moderate	06:14	7.2	ivildale	3.6	0.1	2	27.4	21.4	8.1	8.1	33.1	33.1	91.7	91.7	6.0	j	6.7	0.4	9	9	819169	800242
					Bottom	6.2	0.2	4	27.2	27.2	8.1	8.1	33.0	33.0	87.6 87.6	87.6	5.8	5.8	9.5		9			
i					DOLLOITI	6.2	0.2	356	27.2	21.2	8.1	0.1	33.0	33.0		67.0	5.8	5.0	9.5		8			<u> </u>
					Surface	1.0	0.2	321	27.4	27.4	8.1	8.1	32.6	32.6	89.6 89.6	89.6	5.9		4.9		7			
					Guilace	1.0	0.3	323	27.4	21.7	8.1	0.1	32.6	JZ.U		00.0	5.9	5.9	4.8]	7			
IM7	Fine	Moderate	06:43	7.6	Middle	3.8	0.2	346	27.3	27.3	8.1	8.1	32.6	32.6	88.9	88.9	5.9	0.0	5.1	5.4	6	7	821358	806843
	0	casiato	33.40	0	dulo	3.8	0.2	351	27.3	20	8.1	J. 1	32.6	02.0	88.9	55.5	5.9		5.1	J 5.4	7	•	32.000	223040
Ī i					Bottom	6.6	0.1	350	27.2	27.2	8.1	8.1	32.6	32.6	88.3 88.3	88.3	5.8	5.8	6.3	4	7			
į į					- 11-2111	6.6	0.2	349	27.2		8.1		32.6		88.3		5.8		6.3		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 14 October 23 during Mid-Flood Tide

Water Quar	.cy	ornig rtoca			14 October 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Compline Death	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salinity	(ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value Av	verage	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	HK Grid (Easting)
					Confess	1.0	0.3	293	26.6	20.0	8.1	0.4	30.0	20.0	85.4	05.5	5.8		4.3		4			
					Surface	1.0	0.4	285	26.6	26.6	8.1	8.1	30.1	30.0	85.6	85.5	5.8	- 0	4.3		5			
11.440	F1	Madanata	00.00	0.0	B AC J. III -	4.4	0.3	288	26.6	00.0	8.1	0.4	30.2	00.0	87.9	00.0	6.0	5.9	5.1	- 4	5	-	000000	000044
IM10	Fine	Moderate	08:08	8.8	Middle	4.4	0.3	281	26.6	26.6	8.1	8.1	30.2	30.2	88.1	88.0	6.0		5.1	5.4	4	5	822239	809844
					Dettern	7.8	0.3	299	26.6	20.0	8.1	0.4	30.2	20.2	89.1	89.2	6.0	6.1	6.9		5			
					Bottom	7.8	0.3	300	26.6	26.6	8.1	8.1	30.2	30.2	89.3	89.2	6.1	ъ. і	6.9		5			
					Surface	1.0	0.4	278	26.8	26.8	8.1	8.1	30.2	30.2	86.4	86.5	5.8		4.0		5			
					Surface	1.0	0.4	272	26.8	20.0	8.1	0.1	30.2	30.2	86.5	00.5	5.9	5.9	4.0		5			
IM11	Fine	Moderate	08:03	7.2	Middle	3.6	0.4	264	26.7	26.7	8.1	8.1	30.2	30.2	86.9	87.0	5.9	5.9	6.0	5.9	5	5	821479	810528
IIVI I I	rille	Moderate	06.03	7.2	Middle	3.6	0.4	266	26.7	20.7	8.1	0.1	30.2	30.2	87.0	67.0	5.9		6.0	5.9	5	3	021479	610326
					Bottom	6.2	0.4	286	26.7	26.7	8.1	0.1	30.3	20.2	88.8	89.0	6.0	6.0	7.7		5			
					Bottom	6.2	0.4	286	26.7	20.7	8.1	8.1	30.3	30.3	89.1	09.0	6.0	6.0	7.7		5			
					Surface	1.0	0.4	267	26.7	26.7	8.1	8.1	30.0	30.0	86.4	86.4	5.9		4.4		5			
					Surface	1.0	0.4	263	26.7	20.7	8.1	0.1	30.0	30.0	86.4	00.4	5.9	5.9	4.3		5			
IM12	Fine	Madarata	07:57	7.6	Middle	3.8	0.4	265	26.6	26.6	8.1	0.1	30.0	20.0	87.4	87.6	5.9	5.9	5.1	5.3	5	5	921150	811534
IIVI 12	Fine	Moderate	07:57	7.6	Middle	3.8	0.4	260	26.6	26.6	8.1	8.1	30.0	30.0	87.7	87.6	6.0		5.1	5.3	5	э	821150	811534
					Dettern	6.6	0.4	273	26.6	20.0	8.1	0.4	30.0	20.0	89.5	89.6	6.1	6.1	6.6		5			
					Bottom	6.6	0.3	275	26.6	26.6	8.1	8.1	30.0	30.0	89.7	89.6	6.1	ъ. і	6.5		4			
					Confees	1.0	0.0	208	26.8	20.0	8.1	0.4	29.8	20.0	82.7	00.7	5.6		3.3		4			
					Surface	1.0	0.0	213	26.7	26.8	8.1	8.1	29.8	29.8	82.7	82.7	5.6	5.6	3.4		4			
SR1A	- Fina	Madazata	07.40	4.0	Middle	2.4	0.0	202	-		-		-		-		-	5.6	-	3.7	-	4	040000	812657
SKIA	Fine	Moderate	07:49	4.8	Middle	2.4	0.0	207	-	-	-	1 -	-	-	-	-	-		-	3.7	-	4	819982	812057
					Bottom	3.8	0.0	195	26.7	26.8	8.1	8.1	29.8	29.8	83.3	83.4	5.6	5.7	4.1		4			
					DOLLOITI	3.8	0.0	189	26.8	20.0	8.1	0.1	29.8	29.0	83.5	03.4	5.7	5.7	4.1		4			
					Surface	1.0	0.0	345	26.8	26.8	8.1	8.1	29.8	29.8	84.1	84.2	5.7		3.0		3			
					Surface	1.0	0.0	347	26.8	20.0	8.1	0.1	29.8	29.0	84.3	04.2	5.7	5.7	3.1		3			
SR2	Fine	Moderate	07:41	4.4	Middle	-	0.0	343	-		-		-		-		-	5.7	-	3.3	-	4	821477	814187
SINZ	1 1116	Moderate	07.41	4.4	Middle		0.0	339	-	-	-		-	_	-	_	-			3.3	-	4	021477	014107
					Bottom	3.4	0.0	354	26.8	26.8	8.1	8.1	29.8	29.8	87.6	87.8	5.9	6.0	3.5		4			
					Bottom	3.4	0.0	349	26.8	20.0	8.1	0.1	29.8	29.0	88.0	07.0	6.0	0.0	3.6		4			
					Surface	1.0	0.2	324	27.2	27.2	8.1	8.1	32.6	32.6	88.1	88.1	5.8		6.4		10			
					Surface	1.0	0.2	327	27.2	21.2	8.1	0.1	32.6	32.0	88.1	00.1	5.8	5.8	6.5		11			
SR3	Fine	Moderate	06:52	7.9	Middle	4.0	0.3	329	27.2	27.2	8.1	8.1	32.6	32.6	87.4	87.4	5.8	5.0	7.4	7.3	11	11	822159	807588
ONS	1 1116	Woderate	00.52	7.5	Middle	4.0	0.3	328	27.2	21.2	8.1	0.1	32.6	32.0	87.4	07.4	5.8		7.3	7.5	11		022133	007300
					Bottom	6.9	0.2	328	27.2	27.2	8.1	8.1	32.7	32.7	87.5	87.5	5.8	5.8	8.3		11			
					Bottom	6.9	0.3	321	27.2	21.2	8.1	0.1	32.7	32.7	87.5	07.5	5.8	5.0	8.3		11			
		<u> </u>			Surface	1.0	0.0	266	27.2	27.2	8.1	8.1	33.0	33.0	88.5	88.5	5.9		3.4		11			
					Guilade	1.0	0.1	271	27.2	21.2	8.1	0.1	33.0	55.0	88.5	00.0	5.9	5.9	3.3		11			
SR4A	Fine	Moderate	05:16	9.2	Middle	4.6	-	266	27.2	27.2	8.1	8.1	33.0	33.0	88.3	88.3	5.8	0.0	5.2	5.0	11	11	817197	807786
J1(-)/(1 1110	····odorate	00.10	U.2	Middle	4.6	0.0	268	27.2	21.2	8.1	0.1	33.0	55.0	88.3	00.0	5.8		5.2	0.0	11		317107	007700
					Bottom	8.2	0.0	276	27.2	27.2	8.1	8.1	33.0	33.0	88.2	88.2	5.8	5.8	6.6		11			
					20110111	8.2	0.0	269	27.2		8.1		33.0	-5.0	88.2	00.2	5.8	0.0	6.6		11			
		<u> </u>			Surface	1.0	-	-	26.8	26.8	8.1	8.1	29.8	29.8	86.1	86.2	5.8		3.3		4			
						1.0	-	-	26.8	20.0	8.1	J	29.8	_5.0	86.3	00.2	5.8	5.8	3.3		4			
SR8	Fine	Moderate	07:53	5.0	Middle	-	-	-	-	-	-	J .	-	_ [-		-	5.5	-	3.8	-	4	820402	811604
5.15			000	0.0	madio	-	-	-	-		-		-		-		-		-	1 0.0	-	.	520.02	0004
					Bottom	4.0	-	-	26.7	26.7	8.1	8.1	29.9	29.9	88.0	88.1	6.0	6.0	4.2		4			
					Bottom	4.0	-	-	26.7	20.7	8.1	0.1	29.9	20.0	88.2	00.1	6.0	0.0	4.2		4			

Water Quality Monitoring Results on 17 October 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	214	27.1	27.1	8.2	8.2	33.1	33.1	94.6	94.6	6.3		12.0		25			
					Ourlace	1.0	0.3	211	27.1	27.1	8.2	0.2	33.1	55.1	94.5	34.0	6.2	6.2	11.6		25			
C1	Cloudy	Rough	14:20	8.4	Middle	4.2	0.3	196	27.1	27.1	8.1	8.1	33.0	33.0	94.1	94.1	6.2	0.2	10.5	11.9	26	26	815637	804268
01	Cioday	rtougii	14.20	0.4	Wilddie	4.2	0.3	196	27.1	27.1	8.1	0.1	33.0	00.0	94.1	04.1	6.2		10.9	1	26	20	010001	004200
					Bottom	7.4	0.2	228	27.1	27.1	8.1	8.1	33.0	33.0	94.5	94.6	6.3	6.3	13.1		27			
					Bottom	7.4	0.2	231	27.1	27.1	8.1	0.1	33.0	00.0	94.7	04.0	6.3	0.0	13.4		28			
					Surface	1.0	0.0	168	27.3	27.3	8.1	8.1	31.7	31.7	92.3	92.3	6.1		3.3		20			
					Canade	1.0	0.1	161	27.3	27.0	8.1	0.1	31.7	01.7	92.2	02.0	6.1	6.1	3.5		21			
C2	Cloudy	Rough	12:54	12.1	Middle	6.1	0.1	152	27.1	27.1	8.1	8.1	32.3	32.3	90.6	90.6	6.0	0.1	6.4	6.7	24	21	825686	806945
02	Cioday	rtougii	12.04	12.1	Wilddie	6.1	0.1	155	27.1	27.1	8.1	0.1	32.3	02.0	90.5	50.0	6.0		6.4	0.7	8		020000	000040
					Bottom	11.1	0.1	179	27.1	27.1	8.1	8.1	32.2	32.2	90.8	90.9	6.0	6.0	10.2		26			
					Bottom	11.1	0.1	185	27.1	27.1	8.1	0.1	32.2	02.2	91.0	50.5	6.0	0.0	10.2		25			
					Surface	1.0	0.3	70	27.0	27.0	8.1	8.1	31.1	31.1	79.5	79.4	5.3		4.3		9			
					Ourlace	1.0	0.3	77	27.0	27.0	8.1	0.1	31.1	31.1	79.3	73.4	5.3	5.3	4.3		10			
СЗ	Fine	Rough	13:56	9.0	Middle	4.5	0.3	87	26.9	26.9	8.1	8.1	31.3	31.4	79.1	79.1	5.3	0.0	5.0	5.3	8	9	822104	817810
00	1 1110	rtougii	10.00	0.0	Wildele	4.5	0.3	89	26.9	20.0	8.1	0.1	31.4	01.4	79.2	70.1	5.3		5.0	0.0	9	ŭ	022104	017010
					Bottom	8.0	0.2	61	26.9	26.9	8.1	8.1	31.5	31.5	86.4	87.2	5.8	5.9	6.6		8			
					Bottom	8.0	0.2	56	26.9	20.0	8.1	0.1	31.5	01.0	88.0	07.2	5.9	0.0	6.5		9			
					Surface	1.0	0.1	202	27.1	27.1	8.1	8.1	33.1	33.1	93.8 93.7	93.8	6.2		9.9		30			
						1.0	0.1	200	27.1	2	8.1	0	33.1	00		00.0	6.2	6.2	10.0		31			
IM1	Cloudy	Rough	13:58	7.2	Middle	3.6	0.2	208	27.1	27.1	8.1	8.1	33.1	33.1	92.8	92.7	6.1		9.9	10.1	30	29	818331	806455
	,					3.6	0.2	213	27.1		8.1		33.1		92.6	*	6.1		9.9		29			
					Bottom	6.2	0.2	183	27.1	27.1	8.1	8.1	32.9	32.9	91.6	91.7	6.1	6.1	10.4		27			
						6.2	0.2	177	27.1		8.1		32.9		91.8		6.1		10.7		27			
					Surface	1.0	0.1	200	27.1	27.1	8.1	8.1	33.1	33.1	93.1 93.1	93.1	6.2		8.8		24			
						1.0	0.1	199	27.1		8.1		33.1				6.2	6.2	8.2		22			
IM2	Cloudy	Rough	13:54	7.5	Middle	3.8	0.2	195	27.1	27.1	8.1	8.1	33.1	33.1	92.6	92.7	6.1		9.7	10.1	20	21	819202	806231
	,	3				3.8	0.2	202	27.1		8.1		33.1		92.7		6.1		9.1		19			
					Bottom	6.5	0.1	187	27.0	27.0	8.1	8.1	33.1	33.1	93.1	93.2	6.2	6.2	12.7		19			
						6.5	0.1	190	26.9		8.1		33.2		93.2		6.2		12.0		19			
					Surface	1.0	0.2	113	27.1	27.1	8.1	8.1	32.0	32.1	92.5	92.4	6.2		4.7	4	16			
						1.0	0.1	117	27.1		8.1		32.1		92.3	-	6.1	6.1	4.8	1	15			
IM7	Cloudy	Rough	13:21	8.3	Middle	4.2	0.1	105	26.9	26.9	8.1	8.1	32.5	32.6	90.7	90.7	6.0		6.3	5.9	15	15	821328	806853
*****	,	3				4.2	0.1	106	26.9		8.1	1	32.6		90.7		6.0		6.4	1	14			1111100
					Bottom	7.3	0.2	91	26.9	26.9	8.1	8.1	32.7	32.7	90.7	90.8	6.0	6.1	6.5		14			
DA: Denth-Aver						7.3	0.1	90	26.9		8.1		32.7		90.9		6.1		6.6		14			

DA: Depth-Averaged

Water Quality Monitoring Results on 17 October 23 during Mid-Ebb Tide

water Quar	,	ering reser			17 October 23	uuring wiu-																		
Monitoring	Weather	Sea	Sampling	Water	Complie - D	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	r(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Depi	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.1	71	26.9	00.0	8.1	0.4	30.6	00.0	84.4	04.5	5.7		3.6		10			
					Surface	1.0	0.1	63	26.9	26.9	8.1	8.1	30.7	30.6	84.6	84.5	5.7		3.5	1	10			
11.440			40.50			4.4	0.2	86	26.9	20.0	8.1		30.9		85.5	05.0	5.8	5.8	4.1	1	10			
IM10	Fine	Rough	12:50	8.8	Middle	4.4	0.2	85	26.9	26.9	8.1	8.1	30.9	30.9	85.7	85.6	5.8	1	4.1	4.4	10	9	822246	809814
					5	7.8	0.1	54	26.9	20.0	8.1		30.8		86.4		5.8		5.7		8			
					Bottom	7.8	0.1	58	26.9	26.9	8.1	8.1	30.8	30.8	86.8	86.6	5.8	5.8	5.7		8			
					Cuntana	1.0	0.2	87	27.0	27.0	8.1	0.4	30.3	20.2	85.8	05.0	5.8		2.3		9			
					Surface	1.0	0.2	89	26.9	27.0	8.1	8.1	30.3	30.3	86.0	85.9	5.8	5.9	2.2	1	10			
IM11	Fine	Bough	12:56	7.2	Middle	3.6	0.2	91	26.9	26.9	8.1	8.1	30.4	30.4	87.0	87.1	5.9	5.9	3.1	3.3	10	10	821493	810563
IIVI I	rine	Rough	12.50	1.2	Middle	3.6	0.3	94	26.9	20.9	8.1	0.1	30.4	30.4	87.3	07.1	5.9	ĺ	3.1	3.3	11	10	021493	010303
					Bottom	6.2	0.2	73	26.9	26.9	8.1	8.1	30.4	30.4	88.5	88.8	6.0	6.0	4.6	1	10			
					DOLLOITI	6.2	0.2	67	26.9	20.9	8.1	0.1	30.4	30.4	89.1	00.0	6.0	6.0	4.5		11			
					Surface	1.0	0.2	101	27.0	27.0	8.1	8.1	30.5	30.5	85.2	85.3	5.7		1.1		13			
					Surface	1.0	0.2	97	27.0	27.0	8.1	0.1	30.5	30.3	85.4	00.3	5.7	5.8	1.1		14			
IM12	Fine	Bough	13:01	8.0	Middle	4.0	0.2	97	27.0	27.0	8.1	8.1	30.5	30.5	87.1	87.1	5.9	5.6	2.3	2.3	12	11	821160	811532
IIVIIZ	rine	Rough	13.01	6.0	Middle	4.0	0.2	91	27.0	27.0	8.1	0.1	30.5	30.3	87.1	07.1	5.9		2.3	2.3	10	- 11	021100	011332
					Bottom	7.0	0.2	76	27.0	27.0	8.1	8.1	30.3	30.2	89.2	89.8	6.0	6.1	3.4		10			
					BUILDITI	7.0	0.2	82	27.0	27.0	8.1	0.1	30.1	30.2	90.4	09.0	6.1	6.1	3.4		9			
					Surface	1.0	0.0	14	26.9	26.9	8.1	8.1	30.4	30.4	85.8	85.9	5.8		2.9		14			
					Surface	1.0	0.0	18	26.9	20.9	8.1	0.1	30.4	30.4	86.1	65.9	5.8	5.8	2.9		14			
SR1A	Fine	Rough	13:27	4.6	Middle	2.3	0.0	25	-	_	-	_	-	_	-	_	-	3.0	-	3.0	-	11	819979	812657
OKIA	1 1110	rtougn	13.27	4.0	Middle	2.3	0.0	26	-		-		-		-		-		-	3.0	-		013373	012037
					Bottom	3.6	0.0	358	26.9	26.9	8.1	8.1	30.4	30.4	88.7	89.2	6.0	6.1	3.2		8			
					Bottom	3.6	0.0	358	26.9	20.0	8.1	0	30.4	00	89.7	00.2	6.1	0	3.2		9			
					Surface	1.0	0.2	40	26.9	26.9	8.1	8.1	30.4	30.4	87.8	88.0	5.9		4.3		10			
					- Cundo	1.0	0.2	38	26.9	20.0	8.1	0	30.4	00	88.2	00.0	5.9	5.9	4.3		9			
SR2	Fine	Rough	13:38	5.6	Middle	-	0.2	63	-	_	-	_	-	_	-	-	-	0.0	-	4.9	-	11	821464	814162
						-	0.2	60	-		-		-		-		-		-		-			
					Bottom	4.6	0.2	31	26.9	26.9	8.1	8.1	30.4	30.4	91.1	91.5	6.1	6.2	5.6		11			
					=	4.6	0.2	25	26.9		8.1	• • •	30.4		91.9		6.2		5.5		12			
					Surface	1.0	0.2	122	27.2	27.2	8.1	8.1	31.9	31.9	92.3	92.3	6.1	Į.	5.4	_	21			
						1.0	0.2	116	27.2		8.1		31.9		92.3		6.1	6.1	5.7	_	9			
SR3	Cloudy	Rough	13:15	9.4	Middle	4.7	0.2	142	27.1	27.1	8.1	8.1	32.4	32.4	91.3	91.2	6.1	l	11.1	9.7	23	20	822139	807551
	Í	· ·				4.7	0.1	148	27.0		8.1		32.4		91.1		6.1		11.8	1	22			
					Bottom	8.4	0.1	137	27.0	27.0	8.1	8.1	32.4	32.4	90.7	90.7	6.0	6.0	12.1	4	24			
						8.4	0.1	133	27.0		8.1		32.4		90.7		6.0		12.1		23			
					Surface	1.0	0.0	43	27.2	27.2	8.1	8.1	33.0	33.0	94.0	94.0	6.2	ł	5.2	4	14			
						1.0	0.0	38	27.2		8.1		33.0		93.9		6.2	6.2	5.3	4	15			
SR4A	Cloudy	Rough	14:46	8.7	Middle	4.4	0.0	38	27.0	27.0	8.1	8.1	33.0	33.0	91.8	91.9	6.1	ł	7.8	7.6	12	13	817196	807809
		_				4.4	0.0	32	27.0		8.1		33.0		91.9		6.1	-	8.3	4	12			
					Bottom	7.7	0.1	64 56	26.9 26.8	26.9	8.1 8.1	8.1	33.1	33.1	93.0	93.1	6.2	6.2	9.4	1	12 11			
				1			0.1											1	•					
					Surface	1.0	-	-	27.1 27.1	27.1	8.1 8.1	8.1	30.2	30.2	87.2 87.3	87.2	5.9 5.9		3.1	4	9 8			
						1.0	-	-	27.1		8.1		30.3		87.3		5.9	5.9	3.1	-				
SR8	Fine	Rough	13:06	5.4	Middle	-	-		-	-	-	-	-	-	-	-	-	ł	-	4.1	-	9	820412	811641
						4.4		-										-	5.0	1	10			
					Bottom	4.4	-	-	26.9 27.0	27.0	8.1 8.1	8.1	30.5	30.4	90.4	90.5	6.1	6.1	5.0	-	9			
DA: Donth Aver						4.4	_	-	21.0		Ö. I		30.4		90.0		D. I		5.0	<u> </u>	9			

DA: Depth-Averaged

Water Quality Monitoring Results on 17 October 23 during Mid-Flood Tide

water Qua	ity worm	oning Kesu	iits oii		17 October 23	auring Mia-		ue																
Monitoring	Weather	Sea	Sampling	Water	Occupito D	h. ()	Current Speed	Current	Water Te	emperature (°C)	рŀ	н	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg.		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average				_	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.4	19	27.1		8.1		33.0		94.1		6.2		13.3		6			
					Surface	1.0	0.4	14	27.1	27.1	8.1	8.1	33.0	33.0	94.0	94.1	6.2		13.2		6			
	.					4.2	0.3	29	27.1		8.1		33.0		93.4		6.2	6.2	15.7	1	9	_		
C1	Cloudy	Rough	08:11	8.4	Middle	4.2	0.3	22	27.1	27.1	8.1	8.1	33.0	33.0	93.4	93.4	6.2		15.4	14.0	8	9	815599	804243
					5 "	7.4	0.3	34	27.1	07.4	8.1		33.0		93.3		6.2		13.4		10			
					Bottom	7.4	0.3	41	27.1	27.1	8.1	8.1	33.0	33.0	93.3	93.3	6.2	6.2	13.3		12			
					0	1.0	0.4	342	27.3	07.0	8.1	0.4	31.6	04.0	92.5	00.5	6.1		3.2		9			
					Surface	1.0	0.4	335	27.3	27.3	8.1	8.1	31.6	31.6	92.4	92.5	6.1	6.1	3.3		10			
C2	Claudu	Davish	00.50	44.7	Middle	5.9	0.4	358	27.1	27.1	8.1	0.4	32.2	32.2	90.9	90.9	6.0	6.1	3.6		10	10	825685	806947
C2	Cloudy	Rough	09:53	11.7	Middle	5.9	0.4	353	27.1	27.1	8.1	8.1	32.2	32.2	90.8	90.9	6.0		3.7	6.0	10	10	823683	806947
					Bottom	10.7	0.5	9	27.1	27.1	8.1	8.1	32.3	32.3	90.7	90.8	6.0	6.0	11.2		10			
					DOLLOITI	10.7	0.6	15	27.1	27.1	8.1	0.1	32.3	32.3	90.9	90.6	6.0	6.0	11.0		11			
					Surface	1.0	0.5	252	26.9	26.9	8.0	8.0	30.2	30.2	80.6	80.6	5.4		4.0		11			
					Ourlace	1.0	0.5	249	26.9	20.5	8.0	0.0	30.2	50.2	80.6	00.0	5.4	5.5	4.0		12			
СЗ	Fine	Rough	09:18	9.8	Middle	4.9	0.4	247	26.9	26.9	8.0	8.0	30.2	30.2	80.7	80.7	5.5	0.0	5.3	5.3	10	10	822124	817798
						4.9	0.4	242	26.9		8.0		30.2	***-	80.8		5.5		5.3		10			
					Bottom	8.8	0.4	266	26.9	26.9	8.0	8.0	30.2	30.2	80.9	80.9	5.5	5.5	6.6		9			
						8.8	0.4	270	26.9				30.2		80.9		5.5		6.5		8			
					Surface	1.0	0.3	27	27.1	27.1	8.1	8.1	33.1	33.1	93.0	93.0	6.2		13.2	4	5			
						1.0	0.2	32	27.1		8.1		33.1		93.0		6.2	6.2	13.7	-	6			
IM1	Cloudy	Rough	08:36	7.7	Middle	3.9 3.9	0.2	22 26	27.1 27.1	27.1	8.1 8.1	8.1	33.1 33.1	33.1	92.2 92.2	92.2	6.1		10.4 10.4	12.2	7	7	818351	806457
						6.7	0.2	16	27.1		8.1		33.0		92.2		6.1		12.8		8			
					Bottom	6.7	0.2	19	27.0	27.0	8.1	8.1	33.0	33.0	91.7	91.7	6.1	6.1	12.8	-	9			
						1.0	0.2	11	27.1		8.1		33.0		93.2		6.2		13.8		7			
					Surface	1.0	0.2	6	27.1	27.1	8.1	8.1	33.0	33.0	93.2	93.2	6.2		13.7		8			
						3.8	0.3	18	27.1		8.1		33.0		92.7		6.1	6.2	11.8		7			
IM2	Cloudy	Rough	08:41	7.6	Middle	3.8	0.2	22	27.1	27.1	8.1	8.1	33.0	33.0	92.7	92.7	6.1		11.4	14.3	6	7	819167	806247
					5 "	6.6	0.2	341	27.1	07.4	8.1		33.0		92.3		6.1		17.6		7			
					Bottom	6.6	0.2	344	27.1	27.1	8.1	8.1	33.0	33.0	92.3	92.3	6.1	6.1	17.2		6			
					Confess	1.0	0.2	354	27.2	27.2	8.1	0.4	31.8	24.0	93.2	93.2	6.2		4.5		7			
					Surface	1.0	0.2	358	27.2	21.2	8.1	8.1	31.8	31.8	93.2 93.2	93.2	6.2	6.2	4.5		6			
IM7	Cloudy	Rough	09:15	8.7	Middle	4.4	0.3	349	27.1	27.1	8.1	8.1	32.3	32.2	91.8	91.8	6.1	0.2	5.5	5.7	7	8	821351	806818
IIVI <i>I</i>	Cioudy	Rougii	09.15	0.1	Mildule	4.4	0.2	351	27.1	21.1	8.1	0.1	32.2	32.2	91.7	91.0	6.1		5.5	5.7	8	0	021301	000018
					Bottom	7.7	0.2	22	26.9	26.9	8.1	8.1	32.6	32.6	90.3	90.3	6.0	6.0	7.1		10			
					Bottom	7.7	0.2	27	26.9	20.0	8.1	0.1	32.6	32.0	90.2	30.5	6.0	0.0	7.1		9			

DA: Depth-Averaged

Water Quality Monitoring Results on 17 October 23 during Mid-Flood Tide

water Quar	ity monit	ornig itoot	1113 011		17 October 23	uuring wiu-	1 100a 1	iac																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso	olved rgen	Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.4	288	26.9		8.1		30.4		86.4		5.8		4.3		10			
					Surface	1.0	0.4	282	26.9	26.9	8.1	8.1	30.4	30.4	86.6	86.5	5.8	1	4.3	1	9			
						4.5	0.4	298	26.9		8.1		30.4		87.8		5.9	5.9	5.9	1	9			
IM10	Fine	Rough	10:22	9.0	Middle	4.5	0.4	293	26.9	26.9	8.1	8.1	30.4	30.4	88.1	87.9	5.9	l	5.9	5.4	10	11	822244	809827
					_	8.0	0.3	295	26.9		8.1		30.4		90.0		6.1		6.0	1	13			
					Bottom	8.0	0.3	294	26.9	26.9	8.1	8.1	30.4	30.4	91.2	90.6	6.2	6.2	6.0	1	12			
						1.0	0.4	300	26.9		8.1		30.4		85.3		5.8		1.2		11			
					Surface	1.0	0.5	292	26.9	26.9	8.1	8.1	30.4	30.4	85.8	85.5	5.8		1.1	1	10			
15.44.4	-	Decemb	40.47	7.0	NAC JULI	3.6	0.4	284	26.9	00.0	8.1	0.4	30.4	00.4	86.6	00.7	5.8	5.8	2.5		10	40	004404	040550
IM11	Fine	Rough	10:17	7.2	Middle	3.6	0.4	281	26.9	26.9	8.1	8.1	30.4	30.4	86.9	86.7	5.9	i	2.5	2.3	10	10	821481	810552
					5	6.2	0.4	263	26.9		8.1		30.4		88.0		5.9		3.1	1	8			
					Bottom	6.2	0.5	262	26.9	26.9	8.1	8.1	30.4	30.4	88.4	88.2	6.0	6.0	3.1	1	8			
					0 /	1.0	0.4	291	26.9		8.1		30.5		83.4	00.4	5.6		2.8		8			
					Surface	1.0	0.4	290	26.9	26.9	8.1	8.1	30.5	30.5	83.4	83.4	5.6		2.9	1	8			
13.440	-	Decemb	40:44	0.0	NAC JULI	4.4	0.4	295	26.9	00.0	8.1	0.4	30.5	00.5	83.9	00.0	5.7	5.7	3.4	1	9		004477	044547
IM12	Fine	Rough	10:11	8.8	Middle	4.4	0.4	295	26.9	26.9	8.1	8.1	30.5	30.5	84.0	83.9	5.7	i	3.5	3.5	8	9	821177	811517
					D. II.	7.8	0.4	293	26.9	00.0	8.1	0.4	30.5	00.5	84.7	05.0	5.7		4.1	1	10			
					Bottom	7.8	0.4	293	26.9	26.9	8.1	8.1	30.5	30.5	85.4	85.0	5.8	5.8	4.1	1	9			
					0	1.0	0.0	218	26.8	00.0	8.1	0.4	30.1	00.4	85.2	05.5	5.8		2.4		7			
					Surface	1.0	0.0	213	26.8	26.8	8.1	8.1	30.1	30.1	85.8	85.5	5.8		2.4	1	9			
CD4A	Fine.	Davish	00.40	F.C.	Middle	2.8	0.1	195	-		-		-		-		-	5.8	-	1	-		040000	040055
SR1A	Fine	Rough	09:49	5.6	Middle	2.8	0.1	190	-	-	-	Ī -	-	-	-	-	-	1	-	2.9	-	8	819983	812655
					Bottom	4.6	0.0	192	26.8	26.8	8.1	8.1	30.2	30.2	90.1	90.8	6.1	6.2	3.3		8			
					Bottom	4.6	0.0	186	26.8	20.0	8.1	0.1	30.2	30.2	91.5	50.0	6.2	0.2	3.3		9			
					Surface	1.0	0.1	222	26.9	26.9	8.0	8.0	30.2	30.2	81.3	81.3	5.5		3.0		8			
					Surface	1.0	0.1	229	26.9	20.9	8.0	0.0	30.2	30.2	81.3	01.5	5.5	5.5	3.0		10			
SR2	Fine	Rough	09:38	5.8	Middle	-	0.1	216	-	_	-	_	-	_	-	_	-	3.3	-	3.8	-	9	821476	814180
OILE	1 1110	rtougn	03.30	5.0	Middle	-	0.2	220	-		-		-	_	-		-		-	3.0	-	3	021470	014100
					Bottom	4.8	0.2	211	26.9	26.9	8.0	8.0	30.2	30.2	82.2	82.4	5.6	5.6	4.6		9			
					Bottom	4.8	0.2	207	26.9	20.0	8.0	0.0	30.2	00.2	82.6	02.4	5.6	0.0	4.6		8			
					Surface	1.0	0.4	0	27.1	27.1	8.1	8.1	31.9	32.0	92.0	92.0	6.1	1	6.9		7			
					Gundoe	1.0	0.4	1	27.1	27.1	8.1	0.1	32.0	02.0	91.9	02.0	6.1	6.1	7.2		6			
SR3	Cloudy	Rough	09:22	8.4	Middle	4.2	0.4	0	27.1	27.1	8.1	8.1	32.3	32.3	91.2	91.2	6.1	0	8.4	7.8	8	9	822130	807547
0.10	O.Guay	. toag	00.22	0	madio	4.2	0.4	4	27.0	2	8.1	0	32.3	02.0	91.2	02	6.1		8.4	1	10	ŭ	022.00	00.0
					Bottom	7.4	0.4	341	27.0	27.0	8.1	8.1	32.4	32.4	91.7	91.8	6.1	6.1	7.9		12			
						7.4	0.3	340	27.0		8.1	• • •	32.4		91.8		6.1		7.9		11			
					Surface	1.0	0.0	202	26.9	26.9	8.1	8.1	33.0	33.0	91.9	91.9	6.1		13.5	4	14			
						1.0	0.0	202	26.9		8.1		33.0		91.9		6.1	6.1	13.7	1	12			
SR4A	Cloudy	Rough	07:41	9.2	Middle	4.6	0.0	206	26.9	26.9	8.1	8.1	33.0	33.0	91.8	91.8	6.1	1	13.8	14.7	15	12	817178	807790
-		3 -		-		4.6	0.0	202	26.9		8.1	ļ -	33.0		91.8		6.1		13.8	1	14			
					Bottom	8.2	0.1	191	26.8	26.8	8.1	8.1	33.0	33.0	92.0	92.0	6.1	6.1	16.3	4	9			
			1			8.2	0.0	197	26.8		8.1	1	33.0		92.0		6.1	<u> </u>	17.0	<u> </u>	8			
					Surface	1.0	-	-	27.0	27.0	8.1	8.1	30.1	30.2	88.5	88.6	6.0	1	5.4	4	9			
						1.0	-	-	27.0		8.1		30.2		88.8		6.0	6.0	5.5	4	10			
SR8	Fine	Rough	10:07	5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	6.0	-	9	820411	811621
		-				-	-	-	-		-	1			- 00.7		-	-	-	4	-			
					Bottom	4.0	-	-	26.9	26.9	8.1	8.1	30.4	30.4	92.7	92.7	6.3	6.3	6.6	4	8			
						4.0	-	-	26.9		8.1		30.4		92.7		6.3		6.5		8			1

Water Quality Monitoring Results on 19 October 23 during Mid-Ebb Tide

Water Quui	ity monit	oring Kesu	113 011		19 October 23	during wid-	LDD IIU	•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рН	Salir	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspended (mg/l		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling Bopt	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	220	26.2	26.2	8.1	8.1	30.8	30.8	93.4	93.4	6.4		9.9		8			
					Surface	1.0	0.2	226	26.2	20.2	8.1	0.1	30.8	30.0	93.3	33.4	6.4	6.4	9.6		8			
C1	Cloudy	Rough	15:35	8.6	Middle	4.3	0.1	201	26.2	26.2	8.1	8.1	30.7	30.7	92.9	92.9	6.3	0.4	8.5	9.3	7	8	815617	804248
01	Cloudy	rtougii	10.00	0.0	Middle	4.3	0.1	206	26.2	20.2	8.1	0.1	30.7	30.7	92.9	32.3	6.3		8.8	3.5	8	Ü	013017	004240
					Bottom	7.6	0.1	186	26.2	26.2	8.1	8.1	30.7	30.7	93.3	93.4	6.4	6.4	9.3		7			
					Bottom	7.6	0.1	191	26.2	20.2	8.1	0.1	30.7	00.1	93.5	JOT	6.4	0.4	9.4		7			
					Surface	1.0	0.1	2	26.4	26.4	8.1	8.1	30.1	30.1	91.1	91.1	6.2		1.3		8			
					Ourlace	1.0	0.1	4	26.4	20.4	8.1	0.1	30.1	30.1	91.0	31.1	6.2	6.2	1.4		8			
C2	Cloudy	Rough	14:10	12.3	Middle	6.2	0.0	3	26.2	26.2	8.1	8.1	30.7	30.7	89.4	89.4	6.1	0.2	4.4	4.6	9	9	825697	806925
02	Cloudy	rtougii	14.10	12.0	Middle	6.2	0.0	355	26.2	20.2	8.1	0.1	30.7	30.7	89.3	03.4	6.1		4.4	4.0	8	3	023037	000323
					Bottom	11.3	0.1	352	26.2	26.2	8.1	8.1	30.6	30.6	89.6	89.7	6.1	6.1	8.1		10			
					Bottom	11.3	0.1	356	26.2	20.2	8.1	0.1	30.6	30.0	89.8	03.7	6.1	0.1	8.2		9			
					Surface	1.0	0.1	72	26.9	26.9	8.1	8.1	32.5	32.5	89.2	89.3	5.9		6.0		9			
					Ourlace	1.0	0.1	69	26.9	20.9	8.1	0.1	32.5	32.3	89.3	03.5	5.9	6.0	6.0		10			
СЗ	Misty	Rough	15:25	8.8	Middle	4.4	0.1	65	26.9	26.9	8.1	8.1	32.4	32.4	90.0	90.2	6.0	0.0	7.3	7.2	10	9	822122	817798
03	iviisty	rtougii	10.20	0.0	Middle	4.4	0.2	58	26.9	20.5	8.1	0.1	32.4	32.4		30.2	6.0		7.3	1.2	8	3	022122	017730
					Bottom	7.8	0.2	73	26.9	26.9	8.1	8.1	32.3	32.3	91.7	92.1	6.1	6.2	8.1		9			
					Dottom	7.8	0.2	68	26.9	20.9	8.1	0.1	32.2	32.3	92.4	32.1	6.2	0.2	8.1		8			
					Surface	1.0	0.1	184	26.2	26.2	8.1	8.1	30.8	30.8	92.6	92.6	6.3		7.9		7			
					Ourlace	1.0	0.0	182	26.2	20.2	8.1	0.1	30.8	30.0	92.5	32.0	6.3	6.3	7.9		7			
IM1	Cloudy	Rough	15:14	7.4	Middle	3.7	0.0	169	26.2	26.2	8.1	8.1	30.8	30.8	91.6	91.5	6.2	0.0	7.9	8.1	8	8	818356	806471
	Cioday	rtougii	10.14	/	Wildelic	3.7	0.0	166	26.2	20.2	8.1	0.1	30.8	00.0	91.4	01.0	6.2		7.8	0.1	7	Ü	010000	000471
					Bottom	6.4	0.0	184	26.2	26.2	8.1	8.1	30.6	30.6	90.4	90.5	6.2	6.2	8.4		9			
					Dollo	6.4	0.0	190	26.2	20.2	8.1	0	30.6	00.0	90.6	00.0	6.2	0.2	8.7		10			
					Surface	1.0	0.1	172	26.2	26.2	8.1	8.1	31.5	31.5	91.9	91.9	6.2		6.8		7			
					Gundoo	1.0	0.1	170	26.2	20.2	8.1	0	31.5	01.0	91.9	01.0	6.2	6.2	6.2	_	8			
IM2	Cloudy	Rough	15:09	7.6	Middle	3.8	0.0	164	26.2	26.2	8.1	8.1	31.5	31.5	91.4	91.5	6.2	0.2	7.7	8.0	8	8	819180	806225
	o.ouu,	. toug.	10.00	1.0	madio	3.8	0.0	164	26.2	20.2	8.1	0	31.5	01.0	91.5	01.0	6.2		7.0	0.0	9	Ü	0.0.00	000220
					Bottom	6.6	0.0	142	26.1	26.1	8.1	8.1	31.5	31.5	91.9 92.0	92.0	6.2	6.3	10.6		9			
					Bottom	6.6	0.0	143	26.0	20.1	8.1	0.1	31.6	01.0	92.0	02.0	6.3	0.0	10.0		8			
		·			Surface	1.0	0.0	80	26.2	26.2	8.1	8.1	30.5	30.5	91.3	91.2	6.2		2.6	1	8			
					54.1400	1.0	0.0	86	26.2	23.2	8.1	5.1	30.5	55.0	91.1	01.2	6.2	6.2	2.8	1	8			
IM7	Cloudy	Rough	14:37	7.8	Middle	3.9	0.1	89	26.0	26.0	8.1	8.1	31.0	31.0	89.5	89.5	6.1	J	4.3	3.9	8	9	821330	806854
	C.Cudy	. toagii			ddic	3.9	0.1	94	26.0	23.0	8.1	5.1	31.0	31.0	89.5	55.0	6.1		4.4	3.0	8	3	02.000	333004
					Bottom	6.8	0.1	45	26.0	26.0	8.1	8.1	31.1	31.1	89.5 89.7	89.6	6.1	6.1	4.5	1	11			
					Bottom	6.8	0.1	44	26.0	20.0	8.1	0.1	31.1	01.1	89.7	55.5	6.1	0.1	4.6		11			

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

<u>Value exceeding Action Level is underlined;</u> <u>Value exceeding Limit Level is bolded and underlined</u>

Water Quality Monitoring Results on 19 October 23 during Mid-Ebb Tide

Water Quar	.,	omig mood			19 October 23	during wid-																		
Monitoring	Weather	Sea	Sampling	Water	Carrelline Desir	h (m)	Current Speed	Current	Water Te	emperature (°C)	-	рН	Salin	nity (ppt)		aturation %)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.1	11	26.7		8.1		32.4	00.4	91.3	212	6.1		3.3	Ì	9			
					Surface	1.0	0.1	12	26.7	26.7	8.1	8.1	32.4	32.4	91.3	91.3	6.1		3.3	1	10			
						4.3	-	6	26.7		8.1		32.4		91.3		6.1	6.1	4.6	1	9			
IM10	Misty	Rough	14:13	8.6	Middle	4.3	0.0	9	26.7	26.7	8.1	8.1	32.4	32.4	91.3	91.3	6.1		4.5	4.4	10	10	822252	809824
					5	7.6	0.1	32	26.7		8.1		32.4		91.4		6.1		5.2		10			
					Bottom	7.6	0.1	27	26.7	26.7	8.1	8.1	32.4	32.4	91.4	91.4	6.1	6.1	5.2		10			
					Ourfa a	1.0	0.0	36	26.5	00.5	8.1	0.4	32.4	00.4	92.1	00.0	6.2		4.4		10			
					Surface	1.0	0.0	31	26.5	26.5	8.1	8.1	32.4	32.4	92.2	92.2	6.2	6.2	4.3	1	9			
IM11	Miotr	Bough	14:32	7.8	Middle	3.9	0.0	21	26.5	26.5	8.1	8.1	32.4	32.4	93.0	93.2	6.2	6.2	5.8	5.9	9	10	821503	810547
IIVI I	Misty	Rough	14.32	7.0	ivildale	3.9	0.1	21	26.5	20.5	8.1	0.1	32.4	32.4	93.3	93.2	6.3		5.8	5.9	10	10	621303	610547
					Bottom	6.8	0.1	23	26.5	26.5	8.1	8.1	32.4	32.5	94.4	94.5	6.3	6.3	7.7	1	10			
					DULLUIII	6.8	0.0	18	26.5	26.5	8.1	0.1	32.5	32.3	94.6	94.5	6.3	0.3	7.7		10			
					Surface	1.0	0.1	81	26.6	26.6	8.1	8.1	32.4	32.4	93.7	93.8	6.3		4.0		10			
					Surface	1.0	0.1	80	26.6	20.0	8.1	0.1	32.4	32.4	93.8	33.0	6.3	6.3	4.0		10			
IM12	Misty	Rough	14:36	8.0	Middle	4.0	0.1	84	26.6	26.6	8.1	8.1	32.4	32.4	94.2	94.3	6.3	0.5	5.0	4.8	10	10	821173	811505
110112	iviioty	Rough	14.30	6.0	Middle	4.0	0.1	82	26.6	20.0	8.1	0.1	32.4	32.4	94.3	34.3	6.3		5.0	4.0	10	10	021173	011303
					Bottom	7.0	0.0	98	26.5	26.5	8.1	8.1	32.4	32.4	96.0	96.2	6.4	6.5	5.3		8			
					Dottom	7.0	0.0	92	26.5	20.5	8.1	0.1	32.4	32.4	96.3	30.2	6.5	0.5	5.5		9			
					Surface	1.0	0.0	21	26.3	26.3	8.1	8.1	32.0	32.0	90.0	90.6	6.1		8.8		8			
					Ouriace	1.0	0.1	19	26.3	20.5	8.1	0.1	32.0	32.0	91.1	30.0	6.1	6.1	8.8		9			
SR1A	Misty	Rough	14:49	4.4	Middle	2.2	0.0	18	-	_	-	_	-	_	-	-	-	0.1	-	8.9	-	8	819972	812664
0	moty				madio	2.2	0.0	24	-		-		-		-		-		-	0.0	-	Ü	0.00.2	0.200.
					Bottom	3.4	0.0	34	26.3	26.3	8.1	8.1	32.0	32.0	92.3	93.0	6.2	6.3	9.1		8			
						3.4	0.0	34	26.2		8.1		32.0		93.7		6.3		9.1		8			
					Surface	1.0	0.1	54	26.7	26.7	8.1	8.1	32.3	32.3	93.8	94.0	6.3		7.0	_	8			
						1.0	0.0	46	26.7		8.1		32.3		94.1		6.3	6.3	7.0	_	9			
SR2	Misty	Rough	15:07	4.8	Middle	-	0.1	43	-	-	-	_	-	-	-	-	-		-	7.4	-	8	821471	814158
	,	Ü				-	0.1	48	-		-		-		-		-		-	1	-			
					Bottom	3.8	0.1	46	26.7	26.7	8.1	8.1	32.1	32.0	95.7	95.9	6.4	6.4	7.8	_	8			
						3.8	0.2	46	26.7		8.1		32.0		96.0		6.4		7.7		8			
					Surface	1.0	0.0	30	26.3	26.3	8.1	8.1	30.3	30.3	91.1	91.1	6.2		3.4	-	10			
						1.0	0.0	27	26.3		8.1		30.3		91.1		6.2	6.2	3.7	-	10			
SR3	Cloudy	Rough	14:30	8.9	Middle	4.5	0.0	33	26.2	26.2	8.1	8.1	30.8	30.8	90.1	90.0	6.1		9.1	7.6	8	9	822167	807576
						4.5	0.0	39	26.1		8.1		30.9		89.9		6.1		9.7	4	9			
					Bottom	7.9 7.9	0.0	34 37	26.1 26.1	26.1	8.0	8.0	30.9	30.9	89.5 89.5	89.5	6.1 6.1	6.1	10.0	1	<u>8</u> 9			
			-			1.0	0.1														-			
					Surface	1.0	0.0	4 359	26.3 26.3	26.3	8.1	8.1	30.7	30.7	92.8 92.7	92.8	6.3		3.1	-	7			
						4.5	- 0.1	347	26.3								6.2	6.3	5.8	-				
SR4A	Cloudy	Rough	16:02	8.9	Middle	4.5	0.1	347	26.1	26.1	8.1	8.1	30.7	30.7	90.6	90.7	6.2		6.3	5.6	9	9	817200	807817
						7.9	0.1	348	26.0		8.1		30.7		91.8		6.3		7.3	1	9			
					Bottom	7.9	0.0	350	25.9	26.0	8.1	8.1	30.8	30.8	91.0	91.9	6.3	6.3	7.5	1	10			
			1	1		1.0	-	-	26.5		8.1		32.4		92.7		6.2		4.1	 	8		<u> </u>	
					Surface	1.0	-		26.5	26.5	8.1	8.1	32.4	32.4	92.9	92.8	6.2		4.1	1	8			
						-	-		20.5		-		- 52.4		-		-	6.2		1	-			
SR8	Misty	Rough	14:40	5.8	Middle	-	-	-	_	-		-	_	-		-	_		_	5.1	-	8	820411	811614
						4.8	-	-	26.4		8.1		32.4		94.9		6.4		6.1	1	8			
					Bottom	4.8	-	-	26.4	26.4	8.1	8.1	32.4	32.4	95.2	95.1	6.4	6.4	6.2	1	9			
					l .		1		_∪.¬		Ų. I		U¬		JJ.2		Ų.⊤		J.2		Š			

Water Quality Monitoring Results on 19 October 23 during Mid-Flood Tide

Station Condition Condition Time Depth (m) Surface 1.0 0.3 28 25.5 25.5 8.1 8.1 8.1 30.0 30.0 88.3 88.3 6.1 8.1		gen Turbidit	ity(NTU)		ded Solids ng/L)	Coordinate	Coordinate
Station Condition Condition Time Depth (m) Image: Condition of the performance of the performan					1(1/1)		
Condition Condition Time Depth (m) Condition Time Depth (m) Condition Co					1	HK Grid	HK Grid
Surface 1.0 0.3 24 25.5 25.5 9.1 8.1 20.0 30.0 98.2 88.3 6.1 9.0		DA Value	DA	Value	DA	(Northing)	(Easting)
Surface 1.0 0.3 24 25.5 25.5 9.1 8.1 20.0 30.0 99.2 88.3 6.1 9.0		8.1		8			
		9.0		8			
43 03 17 255 81 300 876 61 6.1		6.1		0			
[1] C1 C101dV R01db C1946 86 Middle		10.2		9	9	815627	804238
76 02 40 255 94 200 975 64 96		0.2		9			
		8.1		10			
Surface 1.0 0.3 355 26.0 26.0 8.0 8.0 28.6 28.6 86.7 86.7 6.0 1.2		1.2		8			i
		1.2		9			
C2 Cloudy Rough 11:28 11.6 Middle 5.8 0.3 356 25.8 25.8 8.1 8.1 29.2 29.2 85.1 85.1 5.9 6.0 1.5	3.9	1.5	2.0	9	9	825670	806966
C2 Cloudy Rough 11.26 11.6 Middle 5.8 0.4 3 25.8 25.6 8.1 8.1 8.1 29.2 29.2 85.0 69.1 5.9 1.6	3.9	1.6	3.9	10	y a	023070	800900
		5.9 9.1		9			
10.6 0.3 350 25.8 8.0 29.3 85.1 5.9 9.0		9.0		10			
		5.4		9			
1.0 0.4 249 26.7 8.1 32.4 90.7 6.1 6.1 6.1		6.1 5.4		8			
C3 Pairy Moderate 10:27 0.0 Middle 4.5 0.5 270 26.7 26.7 8.0 8.0 32.4 32.4 90.6 0.6 6.1 6.6		6.6	6.9	8	- 8	822092	817789
4.5 0.5 263 26.7 8.0 32.4 90.6 6.1 6.5		6.5	_	8			
		6.1		8			
		8.8		8		+	
		8.0		8	_		
		6.0		8	_		
		5.2	7.0	7 8	7	818370	806438
62 02 26 257 84 202 950 50 76		7.6		6			
		5.9 7.6	_	7	_		
10 01 242 259 91 202 974 60 96		8.6	+	8	-	†	1
Surface 4.0 0.4 220 25.8 8.1 20.2 30.3 87.4 87.4 6.0 9.5		0 E		9			
		6.0		0	_		
		6.2	9.0	8	- 8	819189	806240
		12.4		8			
	,	11.9		8			
		2.4		10			
Surface 1.0 0.3 341 25.9 23.9 8.1 6.1 28.8 26.6 87.4 6.0 6.0 2.4		6.0 2.4		11			
M7 Cloudy Bough 40:50 9.2 Middle 4.1 0.2 315 25.8 25.9 8.1 9.4 29.3 20.2 86.0 95.0 5.9 3.5		3.5	3.6	8	9	821367	806813
		3.4		8	9	021307	000013
		5.8 5.1		8			
7.2 0.2 318 25.6 8.1 6.1 29.6 29.0 84.4 64.3 5.8 5.1		5.1		9			

DA: Depth-Averaged

Water Quality Monitoring Results on 19 October 23 during Mid-Flood Tide

Water Quar	ity inioinit	orning recou	113 011		19 October 23	during wid-	11000	uu																
Monitoring	Weather	Sea	Sampling	Water	OPara B	h ()	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.3	308	26.7	00.7	8.1	0.4	32.4	00.4	91.4	04.4	6.1		3.3		8			
					Surface	1.0	0.2	300	26.7	26.7	8.1	8.1	32.4	32.4	91.3	91.4	6.1		3.3		9			
IM10	Mioty	Modoroto	10:10	0.2	Middle	4.6	0.2	301	26.7	26.7	8.1	0.1	32.4	22.4	91.3	91.3	6.1	6.1	4.3	4.3	8	9	822251	809818
IIVITO	Misty	Moderate	12:13	9.2	ivildale	4.6	0.3	301	26.7	20.7	8.1	8.1	32.4	32.4	91.3	91.3	6.1		4.3	4.3	10	9	822251	809818
					Bottom	8.2	0.3	306	26.7	26.7	8.1	8.1	32.4	32.4	91.5	91.6	6.1	6.1	5.3		10			
					DOLLOITI	8.2	0.3	307	26.7	20.7	8.1	0.1	32.4	32.4	91.6	91.0	6.1	0.1	5.3		10			
					Surface	1.0	0.3	300	26.7	26.7	8.1	8.1	32.4	32.4	92.1	92.1	6.2		4.1		9			
					Surface	1.0	0.3	296	26.7	20.7	8.1	0.1	32.4	32.4	92.1	92.1	6.2	6.2	4.1		10			
IM11	Misty	Moderate	12:00	8.0	Middle	4.0	0.3	271	26.6	26.6	8.1	8.1	32.4	32.4	92.7	92.8	6.2	0.2	5.7	5.3	8	9	821495	810540
IIVI I	iviisty	Woderate	12.00	6.0	Middle	4.0	0.2	276	26.6	20.0	8.1	0.1	32.4	32.4	92.8	92.0	6.2		5.8	5.5	9	9	021493	010340
					Bottom	7.0	0.4	297	26.6	26.6	8.1	0.1	32.5	22 F	93.8	93.9	6.3	6.3	6.1		9			
					Bottom	7.0	0.3	291	26.6	26.6	8.1	8.1	32.5	32.5	94.0	93.9	6.3	0.3	6.1		8			
					Surface	1.0	0.3	301	26.5	26.5	8.1	8.1	32.4	32.4	93.4	93.4	6.3		5.4		9			
					Surface	1.0	0.3	298	26.5	26.5	8.1	0.1	32.4	32.4	93.4	93.4	6.3	6.3	5.4		8			
IM12	Misty	Moderate	11:55	8.2	Middle	4.1	0.4	299	26.5	26.5	8.1	8.1	32.4	32.4	94.1	94.2	6.3	0.3	6.4	6.5	8	9	821172	811504
IIVI 12	IVIISTA	Moderate	11:55	8.2	ivildale	4.1	0.4	297	26.5	26.5	8.1	0.1	32.4	32.4	94.2	94.2	6.3		6.5	6.5	9	9	821172	811504
					Dettern	7.2	0.4	304	26.5	20 F	8.1	0.4	32.4	32.4	95.4	95.5	6.4	C 4	7.7		9			
					Bottom	7.2	0.4	304	26.5	26.5	8.1	8.1	32.3	32.4	95.6	95.5	6.4	6.4	7.7		10			
					0	1.0	0.0	185	26.3	00.0	8.1	0.4	32.1	00.4	91.0	04.4	6.1		5.6		8			
					Surface	1.0	0.0	178	26.3	26.3	8.1	8.1	32.1	32.1	91.1	91.1	6.1	6.1	5.6		9			
SR1A	Minter	Madazata	44.00	4.0	Middle	2.3	0.0	203	-		-		-		-		-	0.1	-	6.1	-	9	819977	040000
SKIA	Misty	Moderate	11:03	4.6	ivildale	2.3	0.0	204	-	-	-	-	-	-	-	-	-		-	0.1	-	9	819977	812662
					Bottom	3.6	0.0	200	26.3	26.3	8.1	8.1	32.2	32.2	93.4	93.7	6.3	6.3	6.6		9			
					DOLLOITI	3.6	0.1	206	26.3	20.3	8.1	0.1	32.2	32.2	94.0	93.7	6.3	0.3	6.6		10			
					Surface	1.0	0.1	238	26.7	26.7	8.1	8.1	32.4	32.4	90.5	90.5	6.0		5.1		9			
					Surface	1.0	0.1	238	26.7	20.7	8.1	0.1	32.4	32.4	90.5	90.5	6.0	6.0	5.1		10			
SR2	Misty	Moderate	10:44	4.2	Middle	-	0.2	237	-	-	-		-	_	-		-	0.0	-	5.7	-	9	821469	814160
SKZ	IVIISTA	Moderate	10.44	4.2	Middle	-	0.2	236	-	-	-	-	-	-	-	-	-		-	5.7	-	9	021409	014100
					Bottom	3.2	0.1	212	26.7	26.7	8.1	8.1	32.4	32.4	90.6	90.6	6.1	6.1	6.2		9			
					Bottom	3.2	0.1	207	26.7	20.7	8.1	0.1	32.4	32.4	90.6	90.6	6.1	0.1	6.3		8			
					Surface	1.0	0.2	359	25.8	25.8	8.1	8.1	28.9	29.0	86.2	86.2	6.0		4.8		6			
					Surface	1.0	0.3	357	25.8	23.6	8.1	0.1	29.0	29.0	86.1	00.2	6.0	6.0	5.2		7			
SR3	Cloudy	Rough	10:57	8.6	Middle	4.3	0.2	342	25.8	25.8	8.0	8.0	29.3	29.3	85.4	85.4	5.9	0.0	6.4	5.7	8	7	822166	807591
313	Cloudy	Rough	10.57	0.0	Middle	4.3	0.2	346	25.7	23.0	8.0	0.0	29.3	25.5	85.4	05.4	5.9		6.4	3.7	7	,	022100	807391
					Bottom	7.6	0.2	347	25.7	25.7	8.0	8.0	29.4	29.4	85.9	86.0	5.9	6.0	5.9		8			
					Bottom	7.6	0.3	342	25.7	23.7	8.0	0.0	29.4	25.4	86.0	00.0	6.0	0.0	5.9		7			
					Surface	1.0	0.1	188	25.5	25.5	8.1	8.1	30.1	30.2	84.6	84.7	5.8		4.8		10			
					Surface	1.0	0.0	193	25.5	23.3	8.1	0.1	30.2	30.2	84.7	04.7	5.9	5.9	5.0		9			
SR4A	Cloudy	Rough	09:21	8.3	Middle	4.2	0.0	179	25.5	25.5	8.1	8.1	30.3	30.3	85.2	85.3	5.9	0.0	5.9	6.5	8	10	817174	807828
OINA	Cloudy	rtougn	03.21	0.5	Middle	4.2	0.0	174	25.5	25.5	8.1	0.1	30.3	30.5	85.3	00.0	5.9		6.1	0.5	10	10	017174	007020
					Bottom	7.3	0.0	220	25.5	25.5	8.2	8.2	30.5	30.5	85.9	86.0	5.9	5.9	8.5		11			
					Dottom	7.3	0.1	214	25.5	20.0	8.2	0.2	30.5	00.0	86.0	00.0	5.9	0.0	8.6		11			
-					Surface	1.0	-	-	26.6	26.6	8.1	8.1	32.4	32.4	91.7	91.8	6.1		5.1		8			
					Guildoo	1.0	-	-	26.6	20.0	8.1	0.1	32.4	02.¬	91.8	01.0	6.2	6.2	5.2		9			
SR8	Misty	Moderate	11:44	5.8	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.2	-	5.6	-	9	820381	811622
5 5				0.0		-	-	-	-		-		-		-		-		-		-	ĭ	520001	0022
					Bottom	4.8	-	-	26.5	26.5	8.1	8.1	32.4	32.4	92.9	93.1	6.2	6.2	6.0		9			
					Bottom	4.8	-	-	26.5	20.0	8.1	0.1	32.4	02.¬	93.2	55.1	6.2	0.2	6.1		9			

Water Quality Monitoring Results on 21 October 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	216	26.0	26.0	8.1	8.1	32.6	32.6	90.9	90.9	6.1		7.7		11			
					Gunace	1.0	0.5	223	26.0	20.0	8.1	0.1	32.6	32.0	90.8	30.3	6.1	6.1	7.7		10			
C1	Cloudy	Rough	04:43	8.0	Middle	4.0	0.5	204	26.0	26.0	8.1	8.1	32.6	32.6	89.8	89.8	6.1	0.1	8.2	8.2	9	10	815641	804265
01	Oloudy	rtougii	04.40	0.0	Middle	4.0	0.5	208	26.0	20.0	8.1	0.1	32.6	02.0	89.7	00.0	6.1		8.0	0.2	11	10	010041	004200
					Bottom	7.0	0.5	191	26.0	26.0	8.1	8.1	32.6	32.6	90.7	90.8	6.1	6.1	8.5		11			
					Dotto	7.0	0.5	190	26.0	20.0	8.1	0	32.6	02.0	90.8	00.0	6.1	0	9.0		10			
					Surface	1.0	0.8	166	26.1	26.1	8.1	8.1	31.5	31.5	91.7	91.7	6.2	1	3.6		5			
					- Gundoo	1.0	0.8	161	26.1	20	8.1	0	31.5	01.0	91.7	0	6.2	6.2	3.7		5			
C2	Cloudy	Rough	06:19	11.2	Middle	5.6	0.8	186	26.2	26.2	8.1	8.1	31.6	31.6	91.0	91.0	6.2	0.2	12.0	8.1	5	5	825663	806936
02	Cioday	. toug.	00.10		madio	5.6	0.8	183	26.2	20.2	8.1	0	31.6	01.0	91.0	00	6.2		11.7	0	5	Ŭ	020000	000000
					Bottom	10.2	0.9	177	26.2	26.2	8.0	8.0	31.6	31.6	90.8	90.8	6.2	6.2	8.4		3			
						10.2	0.9	178	26.2		8.0		31.6		90.8		6.2		9.3		4			
					Surface	1.0	0.5	73	26.0	26.0	8.1	8.1	30.5	30.5	79.3	79.3	5.4		3.3		6			
						1.0	0.5	69	26.0		8.1		30.5		79.3		5.4	5.4	3.3		8			
СЗ	Rainy	Moderate	05:15	8.8	Middle	4.4	0.5	64	26.0	26.0	8.1	8.1	30.5	30.5	79.5	79.5	5.4		3.4	3.4	7	7	822129	817806
						4.4	0.4	62	26.0		8.1		30.5		79.5		5.4		3.4		6	•		
					Bottom	7.8	0.4	63	25.9	25.9	8.1	8.0	30.5	30.5	80.6	80.7	5.5	5.5	3.6		6			
						7.8	0.4	64	25.9		8.0		30.5		80.8		5.5		3.6		7			
					Surface	1.0	0.4	186	25.9	25.9	8.1	8.1	32.5	32.5	91.5	91.5	6.2	ļ	3.9		5			
						1.0	0.4	185	25.9		8.1		32.5		91.5		6.2	6.2	3.9		6			
IM1	Cloudy	Rough	05:03	6.9	Middle	3.5	0.4	175	25.9	25.9	8.1	8.1	32.5	32.5	91.4	91.4	6.2	l	4.8	4.8	4	6	818337	806481
	,	Ü				3.5	0.4	167	25.9		8.1		32.5		91.4		6.2		4.9		6			
					Bottom	5.9	0.4	192	25.8	25.8	8.1	8.1	32.5	32.5	91.6	91.7	6.2	6.2	5.4		6			
						5.9	0.4	185	25.8		8.1		32.5		91.7		6.2		5.7		6			
					Surface	1.0	0.5	207	25.9	25.9	8.1	8.1	32.4	32.4	91.3	91.3	6.2	ļ	6.9		8			
						1.0	0.5	202	25.9		8.1	1	32.4				6.2	6.2	7.2		6			
IM2	Cloudy	Rough	05:08	6.7	Middle	3.4	0.5	179	25.9	25.9	8.1	8.1	32.4	32.4	90.5	90.5	6.1	ļ	9.3	8.6	8	7	819166	806228
						3.4 5.7	0.5	181	25.9		8.1	1	32.5		90.4		6.1		10.2		6			
					Bottom	5.7	0.5	198	25.9 25.8	25.9	8.1 8.1	8.1	32.5 32.5	32.5	90.0	90.0	6.1	6.1	9.1		8			
							0.4	190			•						6.1		9.1		6			
					Surface	1.0	0.4	188 187	26.2 26.2	26.2	8.1	8.1	31.7	31.7	91.4	91.4	6.2		3.3	-	6			
						3.9	0.4	187 196	26.2			 	31.7			-		6.2	3.2	-				
IM7	Cloudy	Rough	05:45	7.7	Middle					26.2	8.1	8.1		31.9	90.6	90.6	6.1			4.4	6	6	821327	806836
						3.9	0.3	189	26.2		8.1	 	31.9			-	6.1	l	3.9	-	6			
					Bottom	6.7	0.4	219 212	26.0 26.0	26.0	8.0	8.0	32.2	32.2	90.3	90.4	6.1	6.1	6.2	-	<u>4</u>			
)A: Denth-Aver					<u> </u>	б./	0.4	212	26.0		8.0		32.2		90.5	<u> </u>	6.1	<u> </u>	6.2		5			<u> </u>

DA: Depth-Averaged

Water Quality Monitoring Results on 21 October 23 during Mid-Ebb Tide

		ornig itesa	1	I	Z i Gotobei Zo	during ima	Current	1	1		1				DO S	aturation	Disso	havle	1		Suspende	d Solide		1
Monitoring	Weather	Sea	Sampling	Water			Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		%)	Oxy		Turbidity	(NTU)	(mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.5	136	25.4		8.1		30.3		86.7		6.0		2.1		7			
					Surface	1.0	0.5	136	25.4	25.4	8.1	8.1	30.3	30.3	86.7	86.7	6.0		2.1	1	6			
						4.5	0.5	145	25.4		8.1		30.3		86.7		6.0	6.0	3.0	1	7			
IM10	Misty	Moderate	06:21	9.0	Middle	4.5	0.5	146	25.4	25.4	8.1	8.1	30.3	30.3	86.7	86.7	6.0		3.1	3.2	5	7	822247	809840
						8.0	0.5	150	25.4		8.1		30.4		87.1		6.0		4.5	1	8			
					Bottom	8.0	0.6	150	25.4	25.4	8.1	8.1	30.4	30.4	87.5	87.3	6.0	6.0	4.4	1	7			
						1.0	0.5	112	25.3		8.1		30.4		86.3		6.0		3.2		6			
					Surface	1.0	0.5	109	25.3	25.3	8.1	8.1	30.4	30.4	86.3	86.3	6.0		3.2	1	6			
						4.1	0.6	88	25.3	0.5.0	8.1		30.4		86.6		6.0	6.0	4.2	1	7		004540	0.40=4.4
IM11	Misty	Moderate	06:16	8.2	Middle	4.1	0.6	87	25.3	25.3	8.1	8.1	30.4	30.4	86.7	86.7	6.0		4.2	4.4	6	6	821512	810544
					5	7.2	0.5	120	25.3	05.0	8.1		30.4		87.7		6.1		5.7	1	6			
					Bottom	7.2	0.5	121	25.3	25.3	8.1	8.1	30.4	30.4	87.8	87.8	6.1	6.1	5.7	Ī	6			
					0 /	1.0	0.6	95	25.4	05.4	8.1		30.4	00.4	86.3		6.0		3.1		6			
					Surface	1.0	0.7	99	25.4	25.4	8.1	8.1	30.4	30.4	86.3	86.3	6.0		3.1	1	5			
						4.1	0.6	91	25.4	0.5.4	8.1		30.4		87.1		6.0	6.0	4.1	1	6	_	004450	044540
IM12	Misty	Moderate	06:11	8.2	Middle	4.1	0.6	83	25.4	25.4	8.1	8.1	30.4	30.4	87.2	87.2	6.0		4.1	4.1	5	5	821156	811513
					5	7.2	0.6	81	25.3	0.5.4	8.1		30.4		88.0		6.1		5.1	1	6			
					Bottom	7.2	0.6	83	25.4	25.4	8.1	8.1	30.4	30.4	88.4	88.2	6.1	6.1	5.1	Ī	4			
					0	1.0	0.0	67	25.4	05.4	8.0	0.0	30.3	00.0	83.5	00.0	5.8		3.1		6			
					Surface	1.0	0.1	73	25.4	25.4	8.0	8.0	30.3	30.3	83.7	83.6	5.8	- 0	3.1	1	6			
CD4A	Minter	Madagata	05.40	4.0	Middle	2.1	0.1	67	-		-		-		-		-	5.8	-	3.6	-	7	040000	040004
SR1A	Misty	Moderate	05:46	4.2	Middle	2.1	0.1	74	-	-	-	_	-	-	-	-	-		-	3.0	-	,	819980	812664
					Dettern	3.2	0.0	75	25.4	25.4	8.0	0.0	30.3	20.2	85.4	05.0	5.9	F 0	4.1	1	6			
					Bottom	3.2	0.1	80	25.4	25.4	8.0	8.0	30.3	30.3	85.8	85.6	5.9	5.9	4.1	Ī	8			
					Curtons	1.0	0.6	44	25.4	25.4	8.1	0.4	30.4	30.4	87.3	87.4	6.0		4.6		6			
					Surface	1.0	0.6	38	25.4	25.4	8.1	8.1	30.4	30.4	87.4	87.4	6.0	0.0	4.6	1	6			
SR2	Minter	Madagata	05.25	F 0	Middle	-	0.6	60	-		-		-		-		-	6.0	-	5.2	-		821453	814159
SKZ	Misty	Moderate	05:35	5.0	Milagie	-	0.5	52	-	-	-	Ī -	-	-	-	-	-		-	5.2	-	6	821453	814159
					Bottom	4.0	0.6	57	25.3	25.3	8.1	0.1	30.4	20.4	88.4	88.6	6.1	6.1	5.9	1	6			
					Bottom	4.0	0.7	54	25.3	25.5	8.1	8.1	30.4	30.4	88.8	00.0	6.1	6.1	5.9	1	5			
					Surface	1.0	0.7	180	26.2	26.2	8.1	8.1	31.7	31.7	91.3	91.3	6.2		3.1		6			
					Surface	1.0	0.7	181	26.2	20.2	8.1	0.1	31.7	31.7	91.3	91.3	6.2	6.2	3.2		7			
SR3	Cloudy	Rough	05:52	8.0	Middle	4.0	0.6	184	26.2	26.2	8.1	8.1	31.9	31.9	90.5	90.5	6.1	0.2	8.8	7.5	5	6	822141	807552
313	Cloudy	Rough	05.52	0.0	Middle	4.0	0.7	179	26.2	20.2	8.1	0.1	31.9	31.9	90.5	90.5	6.1		9.2	7.5	5	O	022141	007332
					Bottom	7.0	0.6	151	26.2	26.2	8.1	8.1	32.0	32.0	90.5	90.6	6.1	6.1	10.4		4			
					Bottom	7.0	0.6	145	26.2	20.2	8.1	0.1	32.0	32.0	90.6	30.0	6.1	0.1	10.3		6			
					Surface	1.0	0.0	96	26.0	26.0	8.1	8.1	32.4	32.4	87.3	87.3	5.9		6.6		10			
					Guilace	1.0	0.1	92	26.0	20.0	8.1	0.1	32.4	32.4	87.3	07.5	5.9	5.9	6.8		9			
SR4A	Cloudy	Rough	04:17	8.7	Middle	4.4	0.0	86	25.9	25.9	8.0	8.0	32.4	32.4	87.2	87.2	5.9	5.5	8.1	7.7	9	9	817208	807804
ONTA	Cloudy	rtougn	04.17	0.7	Middle	4.4	0.1	79	25.9	25.5	8.0	0.0	32.4	32.4	87.2	07.2	5.9		8.2	, . <i>,</i>	8	3	017200	007004
					Bottom	7.7	0.0	105	25.9	25.9	8.0	8.0	32.4	32.4	87.4	87.5	5.9	5.9	8.3		8			
					Dottom	7.7	0.1	111	25.9	20.0	8.0	0.0	32.4	02.¬	87.5	07.0	5.9	0.0	8.2		10			
					Surface	1.0	-	-	25.4	25.4	8.1	8.1	30.4	30.4	86.9	87.0	6.0		4.3		7			
					Guildoo	1.0	-	-	25.4	20.7	8.1	0.1	30.4	00. ∓	87.1	07.0	6.0	6.0	4.3]	6			
SR8	Misty	Moderate	06:03	5.2	Middle	-	-	-	-		-] _ [-	_	-	_	-	0.0	-	4.9	-	6	820388	811621
01.0	iviloty	Moderate	00.00	0.2	Middle	-	-	-	-		-		-		-		-		-	15	-		020000	011021
					Bottom	4.2	-	-	25.4	25.4	8.1	8.1	30.4	30.4	88.4	88.8	6.1	6.2	5.6	1	6			
					Bottom	4.2	-	-	25.4	20.7	8.1	0.1	30.4	00.4	89.1	00.0	6.2	0.2	5.6		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 21 October 23 during Mid-Flood Tide

Water Quar	ity wonit	oring Resu	iits oii		21 October 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	y(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0 /	1.0	0.0	41	25.9	05.0	8.1		32.6		92.1	00.4	6.2		8.6		16			
					Surface	1.0	0.0	46	25.9	25.9	8.1	8.1	32.6	32.6	92.1	92.1	6.2		8.4		15			
	.					4.2	0.0	58	25.9	05.0	8.1		32.6		91.8	04.0	6.2	6.2	8.3	١.,	15		0.45000	
C1	Cloudy	Rough	17:11	8.4	Middle	4.2	0.0	51	25.9	25.9	8.1	8.1	32.5	32.5	91.8	91.8	6.2		8.5	9.0	15	16	815626	804241
					5 "	7.4	0.1	57	25.8	05.0	8.1		32.4		91.5		6.2		10.1		15			
					Bottom	7.4	0.1	55	25.8	25.8	8.1	8.1	32.4	32.4	91.4	91.5	6.2	6.2	10.1	1	17			
			1		0	1.0	0.0	348	26.2	00.0	8.1	0.4	31.5	04.5	91.4	91.4	6.2		3.4		6			
					Surface	1.0	0.1	345	26.2	26.2	8.1	8.1	31.5	31.5	91.3	91.4	6.2	6.2	3.5		6			
C2	Cloudy	Rough	15:40	11.9	Middle	6.0	0.1	323	26.3	26.3	8.1	8.1	31.7	31.7	90.1	90.1	6.1	6.2	3.9	5.0	6	6	825658	806945
02	Cloudy	Rougii	15.40	11.9	Middle	6.0	0.1	324	26.3	20.3	8.1	0.1	31.7	31.7	90.1	90.1	6.1		3.9	5.0	5	0	023030	000943
					Bottom	10.9	0.1	318	26.3	26.3	8.1	8.1	31.8	31.7	90.7	90.8	6.1	6.1	7.7		6			
					Bottom	10.9	0.1	325	26.2	20.3	8.1	0.1	31.7	31.7	90.8	90.0	6.1	0.1	7.6		5			
					Surface	1.0	0.0	276	25.9	25.9	8.1	8.1	30.5	30.5	80.2	80.3	5.5		2.1		8			
					Gundee	1.0	0.1	277	25.9	20.0	8.1	0.1	30.5	00.0	80.3	00.0	5.5	5.6	2.1		8			
C3	Misty	Rough	16:40	8.8	Middle	4.4	0.1	288	25.8	25.8	8.1	8.1	30.5	30.5	81.1	81.3	5.6	0.0	3.7	3.4	7	7	822090	817810
		- 3				4.4	0.0	285	25.8		8.1		30.5		81.4		5.6		3.7		6			
					Bottom	7.8	0.1	278	25.8	25.8	8.1	8.1	30.5	30.5	82.6	82.7	5.7	5.7	4.5		8			
						7.8	0.1	272	25.8		8.1		30.5		82.8		5.7		4.4	<u> </u>	7			
					Surface	1.0	0.0	31	25.8	25.8	8.1 8.1	8.1	32.5 32.5	32.5	92.4 92.4	92.4	6.3		15.3	4	9			
						1.0	0.0	31	25.8								6.3	6.3	15.3	_	10			
IM1	Cloudy	Rough	16:48	6.6	Middle	3.3 3.3	0.1	16 9	25.8 25.8	25.8	8.1 8.1	8.1	32.5 32.5	32.5	92.7 92.7	92.7	6.3		7.2 7.2	10.0	<u>8</u> 9	9	818359	806466
						5.6	0.1	42	25.8		8.1		32.6		93.6		6.4		7.6	-	8			
					Bottom	5.6	0.0	38	25.8	25.8	8.1	8.1	32.6	32.6	93.8	93.7	6.4	6.4	7.6	-	7			
						1.0	0.0	40	25.9		8.1		32.4		91.9		6.2		4.9		6			
					Surface	1.0	0.1	44	25.9	25.9	8.1	8.1	32.4	32.4	91.9	91.9	6.2		4.9	-	6			
						3.4	0.1	22	25.9		8.1		32.4		92.2		6.3	6.3	5.5	1	8			
IM2	Cloudy	Rough	16:43	6.8	Middle	3.4	0.0	14	25.9	25.9	8.1	8.1	32.4	32.4	92.3	92.3	6.3		5.4	5.3	8	7	819173	806225
					5 "	5.8	0.1	31	25.8	05.0	8.1		32.4		93.6		6.4		5.7		7			
					Bottom	5.8	0.0	28	25.8	25.8	8.1	8.1	32.4	32.4	94.0	93.8	6.4	6.4	5.5	1	7			
					Confess	1.0	0.1	40	26.1	26.1	8.1	0.4	31.7	24.7	91.6	91.6	6.2		3.2		6			
					Surface	1.0	0.1	45	26.1	∠0.1	8.1	8.1	31.8	31.7	91.6	91.0	6.2	6.2	3.3		6			
IM7	Cloudy	Rough	16:08	8.2	Middle	4.1	0.0	28	26.1	26.1	8.1	8.1	31.8	31.8	91.4	91.4	6.2	0.2	3.6	4.2	6	5	821353	806852
IIVI <i>I</i>	Cloudy	Rougii	10.00	0.2	Miladie	4.1	0.1	25	26.1	20.1	8.1	0.1	31.8	31.0	91.4	91.4	6.2		3.6	4.2	5	5	021303	000002
					Bottom	7.2	0.1	35	26.1	26.1	8.1	8.1	32.1	32.1	91.8	91.9	6.2	6.2	5.8		4			
					Bottom	7.2	0.1	38	26.1	20.1	8.1	J. I	32.1	54.1	91.9	31.3	6.2	0.2	5.8		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 21 October 23 during Mid-Flood Tide

water Quar	ity worm	orning recou	iito oii		Z i Octobel 23	during wid-	1 100a 1	iac																
Monitoring	Weather	Sea	Sampling	Water	0 " 0		Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					<u>.</u> .	1.0	0.1	289	25.4		8.2		30.3		86.8		6.0		4.3		8			
					Surface	1.0	0.1	295	25.4	25.4	8.2	8.2	30.3	30.3	86.8	86.8	6.0		4.3	1	9			
						4.2	0.2	305	25.4		8.2		30.3		86.7		6.0	6.0	5.1	1	8			
IM10	Misty	Rough	15:34	8.4	Middle	4.2	0.2	307	25.4	25.4	8.2	8.2	30.3	30.3	86.7	86.7	6.0		5.1	5.3	10	9	822248	809859
					_	7.4	0.2	311	25.4		8.2		30.3		86.8		6.0		6.6	1	9			
					Bottom	7.4	0.2	318	25.4	25.4	8.2	8.2	30.3	30.3	86.8	86.8	6.0	6.0	6.5	1	8			
					0 /	1.0	0.1	298	25.4	05.4	8.2		30.4	00.4	86.3		6.0		2.3		8			
					Surface	1.0	0.2	297	25.4	25.4	8.2	8.2	30.4	30.4	86.3	86.3	6.0		2.3	1	7			
15.44.4	NAT- C.	Daniel	45.40	7.4	NAC JUIL	3.7	0.1	305	25.4	05.4	8.2	0.0	30.4	00.4	86.3	00.0	6.0	6.0	3.1		9		004504	040550
IM11	Misty	Rough	15:40	7.4	Middle	3.7	0.0	310	25.4	25.4	8.2	8.2	30.4	30.4	86.3	86.3	6.0		3.1	3.4	9	8	821504	810550
					5	6.4	0.2	307	25.4	05.4	8.1		30.4		86.5		6.0		4.9	1	8			
					Bottom	6.4	0.1	303	25.4	25.4	8.1	8.1	30.4	30.4	86.6	86.6	6.0	6.0	4.9	Ī	7			
					0 /	1.0	0.2	298	25.4	05.4	8.1		30.4	00.4	84.2	0.4.0	5.8		1.4		8			
					Surface	1.0	0.2	299	25.4	25.4	8.1	8.1	30.4	30.4	84.3	84.3	5.8	- 0	1.4	Ī	7			
13.440	NAT- C.	Daniel	45.40	0.0	NAC JUIL	4.0	0.1	277	25.4	05.4	8.1	0.4	30.4	00.4	84.7	04.0	5.9	5.9	3.0		8		004444	044504
IM12	Misty	Rough	15:49	8.0	Middle	4.0	0.1	270	25.4	25.4	8.1	8.1	30.4	30.4	85.0	84.9	5.9		3.0	2.6	7	8	821141	811521
					D. II.	7.0	0.2	287	25.4	05.4	8.1	0.4	30.4	00.4	86.0	00.0	5.9	0.0	3.4	Ī	8			
					Bottom	7.0	0.2	286	25.4	25.4	8.1	8.1	30.4	30.4	86.3	86.2	6.0	6.0	3.4	Ī	8			
					0	1.0	0.0	291	25.3	05.0	8.1	0.4	30.1	00.4	79.2	70.0	5.5		2.2		7			
					Surface	1.0	0.0	293	25.3	25.3	8.1	8.1	30.1	30.1	79.3	79.3	5.5		2.1	1	8			
SR1A	Minter	Davish	40.07	4.4	Middle	2.2	0.0	265	-		-		-	_	-		-	5.5	-	1	-	8	040070	812654
SKIA	Misty	Rough	16:07	4.4	Middle	2.2	0.0	265	-	-	-	1 -	-	-	-	-	-		-	2.8	-	8	819972	812004
					Bottom	3.4	0.0	276	25.3	25.3	8.1	8.1	30.2	30.2	79.5	79.6	5.5	5.5	3.4		7			
					Bottom	3.4	0.1	272	25.3	25.5	8.1	0.1	30.2	30.2	79.7	79.0	5.5	5.	3.4		8			
					Surface	1.0	0.1	252	25.4	25.4	8.1	8.1	30.4	30.4	85.7	85.8	5.9		3.5		8			
					Surface	1.0	0.1	250	25.4	25.4	8.1	0.1	30.4	30.4	85.8	03.0	5.9	5.9	3.6		8			
SR2	Misty	Rough	16:18	5.2	Middle	-	0.1	237	-		-		-	_	-			3.9	-	4.1	-	8	821466	814162
SINZ	iviioty	Rough	10.10	5.2	Middle	-	0.1	239	-		-		-		-		-		-] 4.1	-	o	021400	014102
					Bottom	4.2	0.0	237	25.4	25.4	8.1	8.1	30.3	30.3	91.1	91.5	6.3	6.4	4.7		7			
					Dottom	4.2	0.0	240	25.4	25.4	8.1	0.1	30.3	30.3	91.9	31.5	6.4	0.4	4.7		8			
					Surface	1.0	0.1	10	26.2	26.2	8.1	8.1	31.8	31.8	91.9	91.9	6.2		3.3		4			
					Gundoo	1.0	0.0	11	26.2	20.2	8.1	0.1	31.8	01.0	91.8	01.0	6.2	6.2	3.4		4			
SR3	Cloudy	Rough	16:00	8.0	Middle	4.0	0.1	2	26.2	26.2	8.1	8.1	32.0	32.0	91.8	91.8	6.2	0.2	4.8	4.9	4	4	822141	807577
Orto	Oloudy	rtougn	10.00	0.0	Wilddie	4.0	0.1	357	26.2	20.2	8.1	0.1	32.0	02.0	91.8	01.0	6.2		4.9	4.0	4	-	022141	001011
					Bottom	7.0	0.1	4	26.1	26.1	8.1	8.1	32.0	32.0	93.5	93.6	6.3	6.3	6.3		4			
					20110111	7.0	0.1	359	26.1	20.1	8.1	0	32.1	02.0	93.7	00.0	6.3	0.0	6.4		4			
					Surface	1.0	0.0	283	26.0	26.0	8.1	8.1	32.4	32.4	88.2	88.2	6.0		5.4	1	8			
						1.0	0.0	279	26.0		8.1		32.4		88.2		6.0	6.0	5.4		8			
SR4A	Cloudy	Rough	17:41	9.0	Middle	4.5	0.0	293	25.9	25.9	8.1	8.1	32.4	32.4	88.9	89.0	6.0		5.7	5.7	7	7	817183	807795
		110 a.g.:				4.5	0.0	298	25.9		8.1		32.4		89.0		6.0		5.7	1	8	•		
					Bottom	8.0	0.0	308	25.8	25.8	8.1	8.1	32.4	32.4	90.7	90.9	6.2	6.2	5.9		6			
			1			8.0	0.0	306	25.8		8.1	<u> </u>	32.4		91.1		6.2		5.9	<u> </u>	7			
					Surface	1.0	-	-	25.4	25.4	8.1	8.1	30.3	30.3	86.2	86.3	6.0		2.4	4	9			
						1.0	-	-	25.4		8.1		30.3		86.4		6.0	6.0	2.4	1	8			
SR8	Misty	Rough	15:51	4.4	Middle	-	-	-	-	-	-	4 -	-	-	-	-	-		-	3.2	-	9	820379	811639
	,					-	-	-			<u> </u>		-		-		-		-	1				
					Bottom	3.4	-	-	25.4	25.4	8.1	8.1	30.3	30.3	88.5	88.7	6.1	6.2	4.0	4	8			
						3.4	-	-	25.4	-	8.1		30.3		88.9		6.2		4.0		9			

Water Quality Monitoring Results on 24 October 23 during Mid-Ebb Tide

							EDD 11de																	
Monitoring	Weather	Sea	Sampling	Water	On well a popular	th. ()	Current Speed	Current	Water Te	emperature (°C)	Ŀ	рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	un (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
	<u> </u>				<u> </u>	1.0	0.3	198	25.9	05.0	8.1		32.7		90.6		6.1		7.8	1	8			
					Surface	1.0	0.3	199	25.9	25.9	8.1	8.1	32.7	32.7	90.5	90.6	6.1		7.9		8			
04	01	Madaata	00.40	0.4	NAC-L-II-	4.2	0.4	220	25.9	05.0	8.1	0.4	32.9	00.0	89.6	89.6	6.1	6.1	12.9	40.0	5	-	045000	004070
C1 (Cloudy	Moderate	08:18	8.4	Middle	4.2	0.4	216	25.9	25.9	8.1	8.1	32.9	32.9	89.5	89.6	6.0		13.0	10.8	6	7	815636	804270
					Bottom	7.4	0.4	222	25.9	25.9	8.1	8.1	33.0	33.0	88.4	88.4	6.0	6.0	11.6		6			
					BOILOITI	7.4	0.4	216	25.9	25.9	8.1	0.1	33.0	33.0	88.4 88.3	00.4	6.0	6.0	11.6		6			
					Surface	1.0	0.6	181	26.2	26.2	8.0	8.0	31.0	31.1	95.4	95.3	6.5		6.6		7			
					Sulface	1.0	0.6	184	26.2	20.2	8.0	0.0	31.1	31.1	95.1	90.0	6.5	6.3	6.5		6			
C2 C	Cloudy	Moderate	09:58	11.4	Middle	5.7	0.6	165	26.2	26.2	8.0	8.0	31.5	31.5	90.1	90.2	6.1	0.3	8.2	8.4	7	7	825695	806950
02	Cioddy	Woderate	03.30	11.4	Wildale	5.7	0.6	160	26.2	20.2		0.0	31.5	31.3		30.2	6.1		8.4	0.4	8	′	023033	000330
					Bottom	10.4	0.6	178	26.2	26.2	8.0	8.0	31.4	31.4	90.9	91.0	6.2	6.2	10.3		5			
					Bottom	10.4	0.6	178	26.2	20.2		0.0	31.4	0	91.1	00	6.2	0.2	10.4		6			
					Surface	1.0	0.2	77	26.0	26.0	8.1	8.1	29.3	29.3	79.0	79.0	5.5		2.3		4			
						1.0	0.2	69	26.0		8.1		29.3		79.0		5.5	5.5	2.3		5			
C3 S	Sunny	Calm	09:26	9.0	Middle	4.5	0.3	74	26.0	26.0	8.1	8.1	29.3	29.3	79.2 79.2	79.2	5.5 5.5		3.5	3.2	4	5	822129	817806
	,					4.5	0.3	67	26.0		8.1		29.3						3.5		6	-		
					Bottom	8.0	0.3	58	25.9	25.9	8.1 8.0	8.0	29.3 29.3	29.3	80.3 80.5	80.4	5.6	5.6	3.7		6			
						8.0	0.3	62	25.9								5.6		3.6		7			
					Surface	1.0	0.3	205 212	25.9 25.9	25.9	8.1 8.1	8.1	32.4 32.4	32.4	91.7	91.7	6.2		4.1 4.1		7 6			
						3.1	0.3	190	25.8		8.1							6.2	7.6	-				
IM1 C	Cloudy	Moderate	08:42	6.2	Middle	3.1	0.3	196	25.8	25.8	8.1	8.1	32.9 32.9	32.9	89.8 89.7	89.8	6.1 6.1		7.8	8.5	5 6	6	818334	806455
						5.2	0.2	199	25.9		8.1		33.0		89.3		6.0		13.7	-	7			
					Bottom	5.2	0.3	201	25.9	25.9	8.1	8.1	33.0	33.0	89.3	89.3	6.0	6.0	13.7	-	6			
						1.0	0.4	210	25.9		8.1		32.8		90.9		6.1		9.9		11			
					Surface	1.0	0.4	210	25.9	25.9	8.1	8.1	32.8	32.8	90.7	90.8	6.1		10.0	1	11			
						3.6	0.4	181	25.9		8.1		33.1					6.1	7.9	1	8			
IM2	Cloudy	Moderate	08:48	7.2	Middle	3.6	0.4	182	25.9	25.9	8.1	8.1	33.1	33.1	88.9 88.9	88.9	6.0		8.2	9.7	9	8	819193	806249
					5	6.2	0.3	215	25.9	25.0	8.1		33.1		88.9		6.0		11.2		5			
					Bottom	6.2	0.3	209	25.9	25.9	8.1	8.1	33.1	33.1	88.9	88.9	6.0	6.0	11.0		6			
					Curfoss	1.0	0.3	216	26.0	20.0	8.1	0.4	32.0	20.0	91.2	91.2	6.2		4.5		4			
					Surface	1.0	0.3	212	26.0	26.0	8.1	8.1	32.0	32.0	91.1	91.2	6.2	6.2	4.6	1	5			
IM7	Classides	Madazata	00.00	0.0	Middle	4.0	0.3	193	26.0	20.0	8.1	0.4	32.1	20.4	90.8	90.8	6.2	6.2	6.7	6.5	4	5	004040	000054
IIVI7	Cloudy	Moderate	09:23	8.0	Middle	4.0	0.3	196	26.0	26.0	8.1	8.1	32.1	32.1	90.8	90.8	6.2		6.9	6.5	6	5	821349	806854
					Bottom	7.0	0.2	201	26.0	26.0	8.1	0.1	32.1	32.1	90.8	90.8	6.2	6.2	7.9		4			
					DULLOM	7.0	0.2	208	26.0	20.0	8.1	8.1	32.1	32.1	90.8	90.8	6.2	0.2	8.1		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 24 October 23 during Mid-Ebb Tide

water Quar		ornig recou			24 October 23	during wid-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curtons	1.0	0.3	121	26.5	20 F	8.1	0.4	29.1	20.4	86.1	00.4	5.9		1.9		6			
					Surface	1.0	0.3	120	26.5	26.5	8.1	8.1	29.1	29.1	86.1	86.1	5.9		1.9		6			
	•	0.1	40.00			4.6	0.4	120	26.5		8.1		29.1		86.1		5.9	5.9	3.1		6			
IM10	Sunny	Calm	10:32	9.2	Middle	4.6	0.3	119	26.5	26.5	8.1	8.1	29.1	29.1	86.1	86.1	5.9		3.2	3.2	6	6	822249	809840
					_	8.2	0.4	128	26.5		8.1		29.2		86.5		6.0		4.6	1	5			
					Bottom	8.2	0.4	129	26.5	26.5	8.1	8.1	29.2	29.2	86.9	86.7	6.0	6.0	4.5	1	6			
			1			1.0	0.4	99	26.4		8.1		29.1		86.0		5.9		3.2		6			
					Surface	1.0	0.4	99	26.4	26.4	8.1	8.1	29.1	29.1	86.0	86.0	5.9		3.2	1	6			
						4.2	0.3	117	26.4		8.1		29.1		86.3		5.9	5.9	4.8	1	6			
IM11	Sunny	Calm	10:27	8.4	Middle	4.2	0.3	111	26.4	26.4	8.1	8.1	29.1	29.1	86.4	86.4	5.9		4.8	4.6	6	6	821498	810544
						7.4	0.4	105	26.4		8.1		29.2		87.4		6.0		5.8	1	6			
					Bottom	7.4	0.4	103	26.4	26.4	8.1	8.1	29.2	29.2	87.5	87.5	6.0	6.0	5.8	1	6			
			+		<u> </u>	1.0	0.4	116	26.5		_													
					Surface	1.0	0.4	112	26.5	26.5	8.1	8.1	29.2	29.2	86.0 86.0	86.0	5.9 5.9		3.1	-	5 5			
																		6.0		-				
IM12	Sunny	Calm	10:22	8.0	Middle	4.0	0.4	105	26.5	26.5	8.1	8.1	29.2	29.2	86.8	86.9	6.0		4.1	4.1	5	6	821163	811498
						4.0	0.4	104	26.5		8.1		29.2		86.9		6.0		4.1	4	6			
					Bottom	7.0	0.5	120	26.4	26.5	8.1	8.1	29.2	29.2	87.7	87.9	6.0	6.0	5.2	4	6			
						7.0	0.4	118	26.5		8.1		29.2		88.1		6.0		5.2		6			
					Surface	1.0	0.0	77	26.5	26.5	8.0	8.0	29.1	29.1	83.2	83.3	5.7		3.2	1	5			
						1.0	0.0	81	26.5		8.0		29.1		83.4		5.7	5.7	3.2	4	4			
SR1A	Sunny	Calm	09:57	4.4	Middle	2.2	0.0	53	-	_	-	_	-	-	-	-	-		-	3.5	-	5	819972	812654
-	,					2.2	0.0	47	-		-		-		-		-		-		-	-		
					Bottom	3.4	0.1	70	26.5	26.5	8.0	8.0	29.1	29.1	85.1	85.3	5.8	5.9	3.9		5			
						3.4	0.0	70	26.5		8.0		29.1		85.5		5.9		3.9		5			
					Surface	1.0	0.5	50	26.5	26.5	8.1	8.1	29.2	29.2	87.0	87.1	6.0		4.7		6			
						1.0	0.4	47	26.5		8.1		29.2		87.1		6.0	6.0	4.6		6			
SR2	Sunny	Calm	09:46	5.4	Middle	-	0.5	37	-	_	-		-	_	-	_	-		-	5.3	-	6	821459	814160
0.1.2	ou,	Cum	00.10	0	·····auic	-	0.5	33	-		-		-		-		-		-	0.0	-	ŭ	021.100	011100
					Bottom	4.4	0.5	31	26.4	26.4	8.1	8.1	29.2	29.2	88.1	88.3	6.1	6.1	6.0		6			
					Bottom	4.4	0.5	36	26.4	20.4	8.1	0.1	29.2	20.2	88.5	00.0	6.1	0.1	6.0		5			
					Surface	1.0	0.5	169	26.3	26.3	8.0	8.0	31.4	31.4	92.8	92.8	6.3		3.6		7			
					Surface	1.0	0.5	165	26.3	20.5	8.0	0.0	31.4	31.4	92.8	52.0	6.3	6.2	3.6		5			
SR3	Cloudy	Moderate	09:33	8.4	Middle	4.2	0.5	158	26.2	26.2	8.0	8.0	31.8	31.8	90.2	90.2	6.1	0.2	12.9	9.8	6	5	822123	807555
313	Cloudy	Woderate	09.55	0.4	ivildule	4.2	0.5	158	26.1	20.2	8.0	0.0	31.8	31.0	90.1	90.2	6.1		13.9	9.0	5	3	022123	807333
					Bottom	7.4	0.5	162	26.1	26.1	8.0	8.0	31.9	31.9	89.8	89.9	6.1	6.1	12.2		4			
					Bottom	7.4	0.5	157	26.1	20.1	8.0	0.0	31.9	31.9	89.9	09.9	6.1	0.1	12.9		5			
					Curtosa	1.0	0.0	83	26.0	20.0	8.0	0.0	32.6	20.7	88.3	00.0	6.0		5.5		8			
					Surface	1.0	0.0	76	25.9	26.0	8.0	8.0	32.7	32.7	88.3	88.3	6.0	6.0	5.5		10			
0D44	01	Madada	07.50	0.0	NAC-1-II-	4.3	0.0	103	25.9	05.0	8.0	0.0	32.8	00.0	88.1	00.4	6.0	6.0	5.1		10		047470	007044
SR4A	Cloudy	Moderate	07:52	8.6	Middle	4.3	0.0	98	25.9	25.9	8.0	8.0	32.8	32.8	88.1	88.1	6.0		5.1	6.2	9	9	817176	807814
					Detterm	7.6	0.0	84	26.0	20.0	8.1		32.9	20.0	88.3	00.0	6.0		8.1	1	9			
					Bottom	7.6	0.0	87	26.0	26.0	8.1	8.1	32.9	32.9	88.3	88.3	6.0	6.0	7.9	1	8			
						1.0	-	-	26.5		8.1		29.2		86.6		5.9		4.4		5			
					Surface	1.0	-	-	26.5	26.5	8.1	8.1	29.2	29.2	86.8	86.7	6.0	_	4.4	1	4			
						-	-	_	-		-		-		-		-	6.0		1	-			
SR8	Sunny	Calm	10:14	5.2	Middle		-		-	-	_	1 -	_	-	_	-	_		_	5.0	-	5	820370	811643
						4.2	-	-	26.5		8.1		29.2		88.1		6.0		5.6	1	5			
					Bottom	4.2	-	-	26.5	26.5	8.1	8.1	29.2	29.2	88.8	88.5	6.1	6.1	5.6	1	5			
			1		1	4.2		-	20.5		0.1	1	Z3.Z		00.0		0.1		5.0		J			l

DA: Depth-Averaged

Water Quality Monitoring Results on 24 October 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	its on		24 October 23	during Mid-	Flood II	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salini	ty (ppt)		aturation %)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value Ave	rage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0(1.0	0.3	24	25.9	25.9	8.1	.1	31.8	04.0	92.3	92.3	6.3		7.2		5			
					Surface	1.0	0.3	31	25.9	25.9	8.1	.1	31.8	31.8	92.2	92.3	6.3	6.2	7.4		5			
C1	Claudi	Madazata	40.00	0.0	Middle	4.1	0.3	14	25.9	25.9	8.0	.0	31.9	31.9	90.1	90.1	6.1	6.2	9.3	9.3	5	5	815629	804247
CI	Cloudy	Moderate	16:32	8.2	ivildale	4.1	0.3	6	25.9	25.9	8.0	.0	31.9	31.9	90.0	90.1	6.1		9.7	9.3	5	5	813629	804247
					Bottom	7.2	0.2	26	25.9	26.0	8.0	.0	31.8	31.8	90.2	90.3	6.1	6.1	11.1		4			
					Bollom	7.2	0.2	26	26.0	26.0	8.0	.0	31.8	31.0	90.3	90.3	6.1	0.1	11.4		4			
					Surface	1.0	0.0	183	26.3	26.3	8.1	.1	30.7	30.7	95.4	95.4	6.5		2.9		2			
					Sulface	1.0	0.1	177	26.3	20.3	8.1	. 1	30.7	30.7	95.4	33.4	6.5	6.4	3.3		2			
C2	Cloudy	Moderate	14:55	11.7	Middle	5.9	0.1	205	26.1	26.1	8.0		31.5	31.5	90.6	90.6	6.2	0.4	7.6	6.7	4	3	825662	806928
02	Oloddy	Woderate	14.00	11.7	Wildalo	5.9	0.0	208	26.1	20.1	8.0		31.5	01.0	90.6	00.0	6.2		7.4	0.7	3	Ü	020002	000020
					Bottom	10.7	0.1	213	26.1	26.1	8.0	.0	31.5	31.5	90.7	90.7	6.2	6.2	9.6		3			
					Bottom	10.7	0.1	213	26.1	20	8.0		31.5	01.0	90.7		6.2	0.2	9.5		3			
					Surface	1.0	0.3	253	27.0	27.0	8.0	.0	29.3 29.3	29.3	79.9	80.0	5.4		2.9		5			
						1.0	0.3	246	27.0		8.0				80.0		5.4	5.5	3.0		4			
C3	Sunny	Calm	16:05	9.0	Middle	4.5	0.4	280	26.9	26.9	8.0	.0	29.3	29.3	80.8	81.0	5.5		3.8	3.8	5	5	822095	817804
						4.5	0.4	273	26.9		8.0				81.1		5.5		3.8		6			
					Bottom	8.0 8.0	0.4	279 277	26.9 26.9	26.9	8.0	.0	29.3 29.3	29.3	82.3 82.5	82.4	5.6 5.6	5.6	4.6 4.5		<u>4</u> 5			
						1.0	0.4	24	26.9								6.3		5.2					
					Surface	1.0	0.1	21	25.9	26.0	8.1	.1	32.3 32.3	32.3	93.5 93.4	93.5	6.3		5.9		6 5			
						3.2	0.2	20	25.9		0.1				88.9		6.0	6.2	11.1		5			
IM1	Cloudy	Moderate	16:07	6.4	Middle	3.2	0.1	19	25.9	25.9	8.1	.1	32.7 32.7	32.7	88.8	88.9	6.0		11.2	9.8	5	5	818353	806479
						5.4	0.1	358	25.9		8.1		32.8		88.9		6.0		12.8		4			
					Bottom	5.4	0.1	353	26.0	26.0	8.1	.1	32.8	32.8	89.0	89.0	6.0	6.0	12.5		4			
					0(1.0	0.2	352	26.4	00.4	8.1		32.4	00.4	94.3	040	6.3		3.3		4			
					Surface	1.0	0.2	352	26.3	26.4	8.1	.1	32.4 32.4	32.4	94.3	94.3	6.3		3.3		3			
IM2	Claudu	Moderate	16:01	7.0	Middle	3.5	0.1	16	26.0	26.0	8.1	.1	32.5	32.5	93.1	93.1	6.3	6.3	9.3	8.3	4	5	819173	806252
IIVI∠	Cloudy	Moderate	16:01	7.0	ivildale	3.5	0.1	11	26.0	26.0	8.1	. 1	32.5	32.5	93.1	93.1	6.3		9.3	8.3	6	5	819173	806252
					Bottom	6.0	0.1	13	26.2	26.2	8.0	.0	32.6 32.6	32.6	88.5	88.7	6.0	6.0	12.2		5			
					DOLLOTT	6.0	0.1	12	26.2	26.2	8.0	.0	32.6	32.0	88.8	00.7	6.0	6.0	12.3		6			
					Surface	1.0	0.1	300	26.3	26.3	8.1		31.5	31.5	92.7	92.7	6.3		3.7		4			
					Ounace	1.0	0.2	301	26.3	20.5	8.1		31.5	31.3	92.7	32.1	6.3	6.2	3.7		4			
IM7	Cloudy	Moderate	15:34	8.2	Middle	4.1	0.2	288	26.1	26.1	8.1	.1	32.0 32.0	32.0	90.8	90.9	6.1	0.2	7.7	6.9	3	4	821372	806834
	J.Judy	caorato		J.2	dale	4.1	0.2	295	26.1	25.1	8.1			02.0	90.9		6.1		8.0	3.0	4	•	02.012	200004
					Bottom	7.2	0.1	316	26.1	26.1	8.0	.0	32.0	32.0	91.3	91.3	6.2	6.2	9.1		5			
						7.2	0.1	313	26.1	-	8.0		32.0		91.3		6.2		9.3		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 24 October 23 during Mid-Flood Tide

Water Quar	ity morni	orning recou	110 011		24 October 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Des	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.2	271	26.5	00.5	8.1	0.4	29.1	00.4	86.5	00.5	5.9		4.4		4			
					Surface	1.0	0.2	272	26.5	26.5	8.1	8.1	29.1	29.1	86.5	86.5	5.9		4.4	1	5			
		0.1				4.3	0.1	265	26.5	00.5	8.1		29.1		86.4		5.9	5.9	5.2	1	7	_		
IM10	Sunny	Calm	14:59	8.6	Middle	4.3	0.2	265	26.5	26.5	8.1	8.1	29.1	29.1	86.4	86.4	5.9	1	5.2	5.1	6	5	822261	809818
					B ::	7.6	0.2	284	26.5	00.5	8.1		29.1		86.5		5.9		5.7	1	5			
					Bottom	7.6	0.2	289	26.5	26.5	8.1	8.1	29.1	29.1	86.5	86.5	5.9	5.9	5.7	1	4			
					0	1.0	0.2	253	26.5	26.5	8.1	0.4	29.1	00.4	86.0	00.0	5.9		2.4		4			
					Surface	1.0	0.3	259	26.5	20.5	8.1	8.1	29.1	29.1	86.0	86.0	5.9	5.9	2.4	1	4			
IM11	Cuppu	Colm	15:05	7.4	Middle	3.7	0.2	285	26.5	26 F	8.1	0.1	29.2	20.2	86.0	96.0	5.9	5.9	3.2	3.5	6	5	821479	810555
IIVI I	Sunny	Calm	15:05	7.4	Middle	3.7	0.2	285	26.5	26.5	8.1	8.1	29.2	29.2	86.0	86.0	5.9	1	3.2	3.5	4	э	821479	810555
					Dettern	6.4	0.3	263	26.5	20.5	8.1	0.4	29.2	20.2	86.2	86.3	5.9	5.9	5.0	1	5			
					Bottom	6.4	0.3	266	26.5	26.5	8.1	8.1	29.2	29.2	86.3	86.3	5.9	5.9	5.0	1	5			
					Surface	1.0	0.3	281	26.5	26.5	8.1	0.4	29.2	29.2	83.9	84.0	5.8		1.5		5			
					Surface	1.0	0.4	279	26.5	20.5	8.1	8.1	29.2	29.2	84.0	84.0	5.8	5.8	1.5	1	5			
IM12	C	Calm	45.44	0.0	Middle	4.1	0.3	273	26.5	20.5	8.1	0.4	29.2	20.2	84.4	84.6	5.8	5.8	2.0	2.4	5	5	004454	044507
IIVI I Z	Sunny	Calm	15:14	8.2	Middle	4.1	0.3	275	26.5	26.5	8.1	8.1	29.2	29.2	84.7	84.0	5.8	1	2.0	2.4	4	э	821151	811527
					Dettern	7.2	0.3	271	26.5	20.5	8.1	0.4	29.2	29.2	85.7	85.9	5.9	5.9	3.6	1	4			
					Bottom	7.2	0.3	263	26.5	26.5	8.1	8.1	29.2	29.2	86.0	85.9	5.9	5.9	3.5	1	5			
					Confess	1.0	0.0	203	26.4	20.4	8.1	0.4	28.9	20.0	78.9	70.0	5.4		3.0		4			
					Surface	1.0	0.0	200	26.4	26.4	8.1	8.1	28.9	28.9	79.0	79.0	5.4	- 4	3.0	1	5			
SR1A	Cuppu	Colm	15.22	4.4	Middle	2.2	-	184	-		-		-		-		-	5.4	-	22	-	5	910077	812655
SKIA	Sunny	Calm	15:32	4.4	Middle	2.2	0.0	180	-	-	-	Ī -	-	-	-	-	-	1	-	3.3	-	э	819977	812000
					Bottom	3.4	0.0	217	26.4	26.4	8.0	8.0	28.9	28.9	79.2	79.3	5.5	5.5	3.6	1	4			
					DOLLOITI	3.4	0.0	213	26.4	20.4	8.0	6.0	28.9	20.9	79.4	79.5	5.5	5.5	3.6		5			
					Surface	1.0	0.1	211	26.5	26.5	8.1	8.1	29.1	29.1	85.4	85.5	5.9		3.1		5			
					Surface	1.0	0.2	208	26.5	20.5	8.1	0.1	29.1	29.1	85.5	05.5	5.9	5.9	3.1		6			
SR2	Sunny	Calm	15:43	5.6	Middle	-	0.1	207	-		-		-		-		-	5.9	-	4.0	-	5	821447	814182
SINZ	Suring	Callii	13.43	3.0	Middle	-	0.1	207	-	_	-		-	_	-	_	-		-	4.0	-	3	021447	014102
					Bottom	4.6	0.1	225	26.5	26.5	8.1	8.1	29.1	29.1	90.8	91.2	6.2	6.3	4.8		5			
					Bottom	4.6	0.1	221	26.5	20.5	8.1	0.1	29.1	25.1	91.6	91.2	6.3	0.5	4.8		5			
					Surface	1.0	0.1	319	26.2	26.2	8.1	8.1	31.4	31.4	92.2	92.1	6.2		4.3		5			
					Sulface	1.0	0.0	324	26.2	20.2	8.1	0.1	31.4	31.4	91.9	52.1	6.2	6.2	4.5		5			
SR3	Cloudy	Moderate	15:27	8.4	Middle	4.2	0.1	299	26.1	26.1	8.1	8.1	31.9	31.9	89.5	89.5	6.1	0.2	8.9	8.0	6	6	822125	807574
ONS	Cloudy	Woderate	15.27	0.4	Middle	4.2	0.1	292	26.1	20.1	8.1	0.1	31.9	31.3	89.5	03.5	6.1		8.6	0.0	5	U	022123	00/3/4
					Bottom	7.4	0.0	324	26.1	26.1	8.1	8.1	31.9	31.9	89.3	89.3	6.0	6.0	10.9		6			
					Dottom	7.4	0.0	329	26.1	20.1	8.1	0.1	31.9	31.3	89.3	03.5	6.0	0.0	10.6		7			
					Surface	1.0	0.0	237	26.3	26.3	8.1	8.1	32.2	32.2	90.6	90.6	6.1		6.5	1	8			
					Guilace	1.0	0.1	237	26.3	20.0	8.1	0.1	32.2	JZ.Z	90.6	30.0	6.1	6.1	6.5]	10			
SR4A	Cloudy	Moderate	16:55	9.0	Middle	4.5	0.0	253	26.2	26.2	8.1	8.1	32.3	32.3	90.4	90.4	6.1	0.1	8.9	8.8	8	8	817192	807829
01(4/)	Cloudy	Moderate	10.00	0.0	Middle	4.5	-	251	26.2	20.2	8.1	0.1	32.3	02.0	90.4	55.7	6.1		9.0] 0.0	9	ĭ	317102	007020
					Bottom	8.0	0.0	223	26.2	26.2	8.1	8.1	32.3	32.3	90.4	90.4	6.1	6.1	11.4	1	7			
					20110111	8.0	0.0	217	26.2	20.2	8.1		32.3	02.0	90.4		6.1	<u> </u>	10.8	<u> </u>	8			
					Surface	1.0	-	-	26.5	26.5	8.1	8.1	29.1	29.1	85.9	86.0	5.9		3.1	1	4			
						1.0	-	-	26.5	20.0	8.1	J	29.1		86.1	00.0	5.9	5.9	3.1	1	5			
SR8	Sunny	Calm	15:16	4.6	Middle	-	-	-	-	-	-	」	-	_	-	_	-	0.0	-	3.6	-	5	820402	811646
5.10	Carniy	Callin	.5.10	1.0	···idaio	-	-	-	-		-		-		-		-		-] "."	-	Ĭ	020-102	3.10-10
					Bottom	3.6	-	-	26.5	26.5	8.1	8.1	29.1	29.1	88.2	88.4	6.1	6.1	4.1	1	5			
					Bottom	3.6	-	-	26.5	20.0	8.1	0.1	29.1	20.1	88.6	00.¬	6.1	5.1	4.1		4			

Water Quality Monitoring Results on 26 October 23 during Mid-Ebb Tide

Water Qual	ity Monit	oring Resu	its on		26 October 23	during Mid-	Ebb Tide)																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)		led Solids g/L)	Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep) (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	212	26.5	26.5	8.0	8.0	31.8	31.8	92.4	92.3	6.2		3.7		8			
					Surface	1.0	0.3	214	26.5	20.5	8.0	8.0	31.8	31.8	92.1	92.3	6.2	6.2	4.0	1	7			
C1	Cloudy	Moderate	09:40	8.0	Middle	4.0	0.2	197	26.4	26.4	8.0	8.0	32.2	32.2	90.6	90.6	6.1	0.2	6.7	5.4	7	7	815613	804241
Ci	Cloudy	Moderate	09.40	0.0	Middle	4.0	0.3	190	26.4	20.4	8.0	0.0	32.2	32.2	90.5	90.0	6.1		6.7	3.4	8	,	013013	004241
					Bottom	7.0	0.3	188	26.4	26.4	8.0	8.0	32.2	32.2	90.2	90.1	6.1	6.1	5.9		7			
					Dottom	7.0	0.2	186	26.4	20.4	8.0	0.0	32.2	52.2	90.0	30.1	6.1	0.1	5.4		7			
					Surface	1.0	0.6	166	26.8	26.8	8.1	8.1	28.6	28.6	98.3	98.3	6.7		1.9		6			
					Gundoc	1.0	0.6	168	26.8	20.0	8.1	0.1	28.6	20.0	98.3	00.0	6.7	6.4	1.9		6			
C2	Cloudy	Moderate	11:28	11.7	Middle	5.9	0.5	177	26.5	26.5	8.0	8.0	30.9	30.9	88.6	88.6	6.0	0.4	8.6	6.4	6	7	825669	806924
02	Cloudy	Woderate	11.20	117	Wildale	5.9	0.5	170	26.5	20.0	8.0	0.0	30.9	00.0	88.6	00.0	6.0		8.7	0.4	6		020000	000024
					Bottom	10.7	0.6	172	26.5	26.5	8.0	8.0	30.7	30.7	89.4	89.5	6.1	6.1	9.0	_	8			
					50110111	10.7	0.6	177	26.5	20.0		0.0	30.6	00	89.5	00.0	6.1	0	8.1		8			
					Surface	1.0	0.3	75	25.8	25.8	8.0	8.0	30.2	30.2	79.8	79.8	5.5		2.1	_	6			
						1.0	0.3	78	25.8		8.0		30.2		79.7		5.5	5.5	2.1	_	5			
C3	Sunny	Moderate	11:29	11.6	Middle	5.8	0.3	85	25.8	25.8	8.0	8.0	30.4	30.4	79.4	79.5	5.5		3.3	3.2	6	6	822090	817810
	,					5.8	0.3	79	25.8		8.0		30.4		79.5		5.5		3.3		6			
					Bottom	10.6	0.4	73	25.8	25.8	8.0	8.0	30.4	30.4	80.8	80.9	5.5 5.6	5.6	4.0	1	7			
						10.6	0.3	80	25.8		•		30.4		80.9				4.0		7			
					Surface	1.0	0.2	192	26.5 26.5	26.5	8.0	8.0	31.5	31.5	93.7	93.6	6.3		2.7	4	7			
						1.0	0.2	187			+		31.5					6.3	2.9	1	6			
IM1	Cloudy	Moderate	10:18	6.6	Middle	3.3	0.2	182 181	26.4 26.4	26.4	8.0	8.0	31.7 31.7	31.7	91.9	91.8	6.2		5.1 5.4	5.4	<u>4</u> 5	5	818365	806464
						5.6	0.2	164	26.4				32.0		91.7				7.9	-	4			
					Bottom	5.6	0.2	156	26.4	26.4	8.0	8.0	32.0	32.0	91.0	91.0	6.1 6.1	6.1	8.1	-	4			
						1.0	0.2	178	26.6		8.0		31.5		95.6		6.4		2.3	1	5			
					Surface	1.0	0.2	176	26.6	26.6	8.0	8.0	31.5	31.5	95.5	95.6	6.4		2.6	-	6			
						3.4	0.3	178	26.5				31.6		93.8		6.3	6.4	5.5	1	5			
IM2	Cloudy	Moderate	10:22	6.7	Middle	3.4	0.3	175	26.5	26.5	8.0	8.0	31.6	31.6	93.7	93.8	6.3		6.0	5.2	6	6	819195	806249
						5.7	0.3	198	26.5				31.7		93.4				7.4	1	6			
					Bottom	5.7	0.3	191	26.5	26.5	8.0	8.0	31.7	31.7	93.2	93.3	6.3	6.3	7.2	1	6			
						1.0	0.2	181	26.6		8.0		30.3		93.8		6.4		3.7		6			
					Surface	1.0	0.2	186	26.6	26.6	8.0	8.0	30.4	30.3	93.6	93.7	6.3	0.0	3.9	1	5	1		
18.47	Oleverte	Madaat	40.50	7.0	NAC-L-III-	3.8	0.2	201	26.4	00.4	8.0	0.0	30.9	00.6	92.5	00.5	6.3	6.3	7.9	1	4	1 _	004000	000000
IM7	Cloudy	Moderate	10:52	7.6	Middle	3.8	0.2	199	26.4	26.4	8.0	8.0	30.9	30.9	92.4	92.5	6.3		8.2	7.1	5	5	821338	806838
					Dettern	6.6	0.2	197	26.4	20.4	8.0	0.0	31.0	24.0	92.4	00.5	6.3	C 2	9.4	1	4	1		
					Bottom	6.6	0.2	192	26.4	26.4	8.0	8.0	31.0	31.0	92.6	92.5	6.3	6.3	9.4	1	5	1		

DA: Depth-Averaged

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

<u>Value exceeding Action Level is underlined;</u> <u>Value exceeding Limit Level is bolded and underlined</u>

Water Quality Monitoring Results on 26 October 23 during Mid-Ebb Tide

water Quai	ity worm	oring Kesu	ILS UII		26 October 23	auring Mia-	EDD HUG	-																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water To	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)		ed Solids g/L)	Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	114	25.8	25.8	8.1	8.1	28.7	28.7	89.1	89.2	6.2		2.1		7			
					Sulface	1.0	0.4	117	25.8	25.6	8.1	0.1	28.7	20.7	89.2	09.2	6.2	6.2	2.1		6			
IM10	Sunny	Moderate	12:36	9.0	Middle	4.5	0.4	124	25.8	25.8	8.1	8.1	28.7	28.7	89.6	89.7	6.2	0.2	3.6	3.3	7	6	822237	809826
114110	Curiny	Woderate	12.00	0.0	Wildalo	4.5	0.4	117	25.8	20.0	8.1	0.1	28.7	20.1	89.8	00.7	6.2		3.6	0.0	6	U	OZZZOI	000020
					Bottom	8.0	0.4	132	25.8	25.8	8.1	8.1	28.7	28.7	90.4	90.6	6.3	6.3	4.3		5			
						8.0	0.4	133	25.8		8.1	• • •	28.7		90.7		6.3		4.4		5			
					Surface	1.0	0.5	116	25.9	25.9	8.1	8.1	28.7	28.7	88.8	88.8	6.1		1.2	_	6			
						1.0	0.5	117	25.9		8.1		28.7		88.8		6.1	6.2	1.2	-	5			
IM11	Sunny	Moderate	12:30	7.8	Middle	3.9	0.5	113	25.9	25.9	8.1	8.1	28.7	28.7	88.9	89.0	6.2		2.3	2.0	6	6	821497	810521
						3.9	0.5	108	25.9		8.1		28.7		89.0		6.2		2.3	4	6			
					Bottom	6.8	0.4	122	25.9	25.9	8.1 8.1	8.1	28.7	28.7	89.9 92.9	91.4	6.2	6.3	2.5	-	6			
						6.8	0.4	123	25.9				28.7				6.4		2.5		6			
					Surface	1.0	0.5 0.6	118 120	25.8 25.8	25.8	8.1 8.1	8.1	28.8	28.8	88.4 88.5	88.5	6.1		3.3	-	5 6			
						3.8	0.6	113	25.8		8.1		28.8		88.7		6.1	6.1	3.4	-	4			
IM12	Sunny	Moderate	12:25	7.6	Middle	3.8	0.5	119	25.7	25.8	8.1	8.1	28.9	28.8	88.9	88.8	6.2		3.6	3.5	6	5	821143	811526
						6.6	0.5	124	25.4		8.1		29.1		89.4		6.2		3.7	-	5			
					Bottom	6.6	0.5	125	25.3	25.4	8.1	8.1	29.1	29.1	93.2	91.3	6.5	6.4	3.9	1	5			
				1		1.0	0.0	59	25.8	1	8.1		29.1		86.8		6.0		2.1		5			
					Surface	1.0	0.0	59	25.8	25.8	8.1	8.1	29.1	29.1	87.0	86.9	6.0		2.1	1	6			
						2.5	0.0	59	-		-		-		-		-	6.0	-	1	-			
SR1A	Sunny	Moderate	12:00	5.0	Middle	2.5	0.0	58	-	-	-	-	_	-	_	-	-		-	2.8	-	6	819975	812653
						4.0	0.0	51	25.9		8.1		29.1		87.6		6.0		3.4	1	7			
					Bottom	4.0	0.1	44	25.9	25.9	8.1	8.1	29.1	29.1	87.7	87.7	6.1	6.1	3.4	1	6			
					0(1.0	0.4	28	25.8	05.0	8.1	0.4	29.2	00.0	88.9	00.0	6.1		2.3		8			
					Surface	1.0	0.5	31	25.8	25.8	8.1	8.1	29.2	29.2	89.1	89.0	6.2	6.2	2.3	1	7			
SR2	Sunny	Moderate	11:49	3.8	Middle	-	0.4	25	-	_	-		-		-		-	6.2	-	3.0	-	7	821443	814154
SKZ	Suriny	Moderate	11.49	3.0	ivildale	-	0.4	22	-	1	-	1 -	-	1 -	-	-	-		-	3.0	-	,	021443	014134
					Bottom	2.8	0.5	57	25.7	25.7	8.1	8.1	29.2	29.1	93.7	93.9	6.5	6.5	3.7		6			
					Dottom	2.8	0.5	53	25.7	25.7	8.1	0.1	29.1	25.1	94.0	33.3	6.5	0.5	3.7		6			
					Surface	1.0	0.5	147	26.6	26.6	8.0	8.0	29.8	29.7	95.4	95.4	6.5		2.7		5			
					Odiface	1.0	0.5	146	26.6	20.0	8.0	0.0	29.7	23.1	95.4	33.4	6.5	6.3	2.6		5			
SR3	Cloudy	Moderate	11:00	8.5	Middle	4.3	0.5	169	26.5	26.5	8.0	8.0	30.8	30.8	89.5	89.5	6.1	0.0	10.4	7.4	5	5	822152	807556
						4.3	0.5	163	26.5		8.0		30.8		89.5		6.1		10.3	1	5	-		
					Bottom	7.5	0.5	136	26.5	26.5	8.0	8.0	30.9	30.9	89.3	89.3	6.0	6.0	9.2	_	4			
						7.5	0.5	130	26.5		8.0		30.9		89.3		6.0		9.2		4			
					Surface	1.0	0.1	115	26.5	26.5	8.0	8.0	31.6	31.6	91.3	91.2	6.1		3.1	4	6			
						1.0	0.1	111	26.5		8.0		31.6	ļ	91.1		6.1	6.1	3.2	4	6			
SR4A	Cloudy	Moderate	09:15	8.9	Middle	4.5	0.0	104	26.4	26.4	8.0	8.0	31.8	31.8	90.2	90.2	6.1		3.5	3.7	5	5	817204	807809
	•					4.5	0.0	107	26.4				31.8		90.2		-		3.6	-	5			
					Bottom	7.9 7.9	0.0	90	26.4	26.4	8.0	8.0	32.1 32.1	32.1	89.1	89.2	6.0	6.0	4.5	4	<u>4</u> 5			
	<u> </u>		<u> </u>	<u> </u> 		1.0	0.0	- 84	26.4	<u> </u>	_			1	89.2		6.0		4.5	1			1	
					Surface	1.0	-		26.0 26.0	26.0	8.1	8.1	29.1 29.1	29.1	91.2	91.4	6.3		2.3	4	<u>6</u> 5			
						1.0	-	-	26.0		8.1	-	29.1	}	91.5		6.3	6.3		1				
SR8	Sunny	Moderate	12:17	5.2	Middle	-	-	-	-	-	-	-	<u> </u>		-	-	-		-	2.7	-	5	820377	811638
						4.2	-	-	26.0		8.1		29.0	1	91.5		6.3		3.1	1	5			
					Bottom	4.2	-	-	26.0	26.0	8.1	8.1	29.0	29.0	91.5	91.4	6.3	6.3	3.1	1	5			
	l		1		I	4.2		-	∠0.∪		Ø. I	l	∠9.0	1	91.2		0.3		ა. I	1)		l	

DA: Depth-Averaged

Water Quality Monitoring Results on 26 October 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Occupies Des	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.3	40	26.6	26.6	8.1	8.1	31.2	31.2	93.2	93.2	6.3		11.3		5			
					Gunace	1.0	0.3	37	26.5	20.0	8.1	0.1	31.2	31.2	93.2	33.2	6.3	6.3	11.5		5			
C1	Cloudy	Moderate	17:09	8.1	Middle	4.1	0.3	50	26.5	26.5	8.1	8.1	31.2	31.2	92.9	92.9	6.3	0.5	10.3	10.9	5	6	815635	804227
Ci	Cloudy	Wioderate	17.09	0.1	Middle	4.1	0.3	51	26.5	20.5	8.1	0.1	31.2	31.2	92.9	52.5	6.3		10.5	10.9	6	U	013033	004227
					Bottom	7.1	0.3	55	26.5	26.5	8.0	8.0	31.2	31.2	93.0	93.1	6.3	6.3	10.9		7			
					Dottom	7.1	0.3	50	26.5	20.3	8.0	0.0	31.2	31.2	93.1	33.1	6.3	0.0	10.7		6			
					Surface	1.0	0.0	177	26.7	26.7	8.0	8.0	28.7	28.7	97.4	97.4	6.6		2.1		9			
					Cunace	1.0	0.0	171	26.7	20.7	8.0	0.0	28.8	20.1	97.3	O7.⊣	6.6	6.3	2.1		8			
C2	Cloudy	Moderate	15:56	12.0	Middle	6.0	0.1	163	26.5	26.5	8.0	8.0	30.8	30.8	88.6	88.6	6.0	0.0	5.8	5.1	8	8	825686	806964
02	Cicacy	moderate	10.00	.2.0	madio	6.0	0.1	160	26.5	20.0	8.0	0.0	30.9	00.0	88.6	00.0	6.0		5.9		7	Ü	020000	
					Bottom	11.0	0.1	166	26.5	26.5	8.0	8.0	30.9	30.9	88.9	89.0	6.0	6.0	7.6	_	7			
						11.0	0.1	168	26.5				30.9		89.0		6.0		7.2		7			
					Surface	1.0	0.4	275	25.8	25.8	8.1	8.1	29.3	29.3	83.0	83.0	5.7 5.7		1.1	4	4			
						1.0	0.4	281	25.8		8.1		29.3		82.9			5.7	1.1	4	5			
C3	Sunny	Moderate	17:04	8.6	Middle	4.3	0.5 0.5	276 272	25.8 25.8	25.8	8.1	8.1	29.5 29.5	29.5	82.7 82.7	82.7	5.7 5.7		2.8	2.5	5	5	822124	817782
						7.6	0.5	281	25.8						82.7				3.7	-	6			
					Bottom	7.6	0.4	287	25.8	25.8	8.1 8.1	8.1	29.5 29.5	29.5	82.9	82.9	5.7	5.7	3.7	-	5			
						1.0	0.3	15	26.6		8.1		31.4		92.2		6.2		3.0	1	7			
					Surface	1.0	0.1	18	26.6	26.6	8.1	8.1	31.4	31.4	92.3	92.3	6.2		3.0	-	6			
						3.2	0.1	21	26.4		8.1		31.6		90.2		6.1	6.2	5.0	1	8			
IM1	Cloudy	Moderate	16:45	6.3	Middle	3.2	0.1	24	26.4	26.4	8.1	8.1	31.6	31.6	90.2	90.2	6.1		5.1	6.1	7	7	818367	806449
					5	5.3	0.1	21	26.4		8.1		31.6		90.1		6.1		10.4	Ī	8			
					Bottom	5.3	0.0	14	26.4	26.4	8.1	8.1	31.6	31.6	90.2	90.2	6.1	6.1	9.9	Ī	8			
					Surface	1.0	0.1	303	26.7	26.7	8.1	8.1	31.3	31.3	93.3	93.3	6.3		4.8		7			
					Surface	1.0	0.0	302	26.7	20.7	8.1	0.1	31.3	31.3	93.3	93.3	6.3	6.2	4.9	1	7			
IM2	Cloudy	Moderate	16:40	6.6	Middle	3.3	0.1	295	26.4	26.4	8.0	8.0	31.7	31.7	90.8	90.8	6.1	0.2	10.3	8.9	8	8	819193	806219
IIVIZ	Cloudy	Wioderate	10.40	0.0	Middle	3.3	0.1	290	26.4	20.4	8.0	0.0	31.7	31.7	90.8	90.0	6.1		10.8	0.9	8	O	019193	000219
					Bottom	5.6	0.1	310	26.5	26.5	8.0	8.0	31.8	31.7	91.5	91.6	6.2	6.2	11.6		8			
					Dottom	5.6	0.1	304	26.5	20.3		0.0	31.7	51.7	91.6	31.0	6.2	0.2	11.3		8			
					Surface	1.0	0.1	257	26.6	26.6	8.0	8.0	30.3	30.3	93.4	93.4	6.3		9.3		6			
					22.11400	1.0	0.1	251	26.6	_5.0	8.0	5.0	30.3	23.0	93.3		6.3	6.3	9.9		5			
IM7	Cloudy	Moderate	16:16	7.0	Middle	3.5	0.2	275	26.5	26.5	8.0	8.0	30.6	30.6	92.3	92.3	6.3		6.4	7.9	7	7	821369	806818
	,			-		3.5	0.2	275	26.5		8.0		30.6		92.3		6.3		6.4	1	6			
					Bottom	6.0	0.2	257	26.5	26.5	8.0	8.0	30.7	30.7	92.6	92.6	6.3	6.3	7.8	-	8			
						6.0	0.3	262	26.5		8.0		30.7		92.6		6.3		7.6		7			

DA: Depth-Averaged

Water Quality Monitoring Results on 26 October 23 during Mid-Flood Tide

Mathematical Part	water Quar	ity moint	ornig ittesa	113 011		20 October 23	during wid-		uc																
Section Coulision Coulision Time Depth (ring) Surpay (Section Time Depth (ring) Surpay (Section Time Depth (ring) Surpay (Section Time Depth (ring)	Monitoring	Weather	Sea	Sampling	Water	Complie - De-	h ()		Current	Water To	emperature (°C)		рН	Saliı	nity (ppt)					Turbidity	(NTU)				
Moderate Survey Moderate 15.58 B	Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
Modernoon 15.50 Mode						0	1.0	0.2	244	25.9	05.0	8.1	0.4	28.6	00.0	87.2	07.0	6.0		2.9		6			
Mile Surry Moderate 15-58 8-2 Mode 4-1 6-2 23-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2 23-5 8-1 23-2						Suпасе	1.0	0.2	248	25.9	25.9	8.1	8.1			87.2	87.2		0.0	3.0		4			
Mile Mile	IMAO	Common	Madausta	45.50	0.0	Mistalia	4.1	0.2	231	25.9	25.0	8.1	0.4	28.6	20.0	87.3	07.4	6.0	6.0	3.1	2.5	5	_	000004	000047
Miles	IIVITO	Sunny	Moderate	15:58	8.2	ivildale	4.1	0.2	230	25.9	25.9	8.1	0.1	28.6	28.6	87.4	87.4	6.0		3.1	3.5	6	٥	822224	809817
Mill Surny Moderate 16-04 7-2 0.3 243 258 258 8.1 286 878 81 4.5 6.1 4.5 4.5 6.1 4.5 4.5 6.1 4.5 4						Dottom	7.2	0.2	236	25.9	25.0	8.1	0.1	28.6	20.6	87.5	97.6	6.1	6.1	4.6		6			
Ministrate Min						DOLLOITI	7.2	0.1	243	25.9	25.9	8.1	0.1	28.6	20.0	87.6	07.0	6.1	0.1	4.5		6			
Mile						Surface	1.0	0.3	267	25.7	25.7	8.1	0.1	28.9	29.0	87.4	97.2	6.1		1.3		5			
Moderate Moderate						Sunace		0.3	274	25.7	25.7	8.1	0.1	28.9	20.9	87.1	07.5	6.0	6.1	1.3		6			
Moderate 16:31 Moderate 16:31 Moderate 16:32 Surface 16:34 Moderate 1	IM11	Suppy	Moderate	16:04	7.2	Middle		0.3	269	25.7	25.7	8.1	0.1	29.0	20.0	87.6	977	6.1	0.1	2.1	2.2	5	-	921490	910550
Sum Moderate 16-10 Sum Sum Moderate 16-10 Sum Moderat	IIVIII	Suring	Moderate	10.04	1.2	ivildale	3.6	0.2	272	25.7	25.7	8.1	0.1	29.0	29.0	87.7	01.1	6.1		2.1	2.3	5	3	021400	610559
Mile						Dottom	6.2	0.2	250	25.7	25.7	8.2	0.2		20.0	88.0	00 1	6.1	6.1	3.4		5			
Mile						Bottom	6.2	0.2	245	25.7	25.7	8.2	8.2	29.0	29.0	88.1	88.1	6.1	0.1	3.4		5			
Moderate 16:13 Moderate						Curtons	1.0	0.2	275	26.1	20.4	8.1	0.4	28.6	20.0	90.2	00.2	6.2		2.9		5			
Mide						Surface	1.0	0.3	269	26.1	20.1	8.1	8.1		28.6	90.4	90.3	6.2		2.9		6	1		
Register Register	IMAO	Common	Madausta	40.40	0.0	Mistalia	4.0	0.3	263	26.1	20.4	8.1	0.4	28.7	20.7	90.8	04.0	6.3	6.3	3.4	2.4	5	_	004447	044540
Sum Moderate 16.10 Moder	IIVI12	Sunny	Moderate	16:13	8.0	Middle	4.0	0.2	268	26.0	26.1	8.1	8.1	28.7	28.7	91.1	91.0	6.3		3.5	3.4	6	ь	821147	811540
SRIA Sumy Moderate 18:31						D-11	7.0	0.3	278	26.1	00.4	8.1	0.4	28.7	00.0	91.9	00.0	6.3	0.4	4.0		6			
SRIA Sunny Moderate 16.31 4.8						Bottom	7.0	0.3	282	26.1	26.1	8.1	8.1		28.6	92.4	92.2		6.4	4.0		7			
SRIA Sunny Moderate 16.31 4.8						0 (1.0	0.0	192	25.9	05.0	8.1		28.7	00.7	88.8		6.2		1.5		5			
SR1A Sunny Moderate 16:31 4.8 Middle 2.4 0.0 1750						Surface	1.0	0.0	186	25.9	25.9		8.1		28.7		88.9		0.0	1.4		6			
Second Part	0044	0	Madaata	40.04	4.0	NAC-1-III-	2.4	0.0	175	-		-		-		-			6.2	-	0.0	-	1	040077	040050
SR2 Sunny Moderate 16:12	SKIA	Sunny	Moderate	16:31	4.8	Middle	2.4	0.1	170	-	-	-	-	-	_	-	-	-		-	2.2	-	ь	819977	812659
SR2 Sunny Moderate 16:42 5.4 Middle 10. 0.2 241 25.9 25.8 8.1 8.1 28.6 28.7 90.5 96.6 6.3 6.2 2.3 90.5 96.6 6.3 6.3 6.2 2.3 90.5 96.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3						D-#	3.8	0.1	181	25.9	25.0	8.1	0.4	28.7	20.7	89.3	00.4	6.2	C 2	3.0		6			
SR2 Sunny Moderate 16:42 5.4 Middle 1.0 0.2 234 1.0 0.2 237 1.0 0.2 237 1.0 0.0 1.0 0.2 238 1.0 0.0 0.2 238 1.0 0.0 0.2 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0						Bottom		0.1			25.9		8.1		28.7		89.4		6.2						
SR2 Sunny Moderate 16:42 5.4 Middle						Curtons	1.0	0.2	241	25.9	25.0	8.1	0.4	28.6	20.7	90.6	00.0	6.3		2.3		5			
SR2 Sunny Moderate 16:42 5.4 Middle - 0.2 237 - 0.2 2.2 26.8 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5						Suпасе	1.0	0.2	244		25.9		8.1		28.7		90.6		0.0			6			
Bottom 4.4 0.2 236 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8	000	0	Madaata	40.40	- 4	NAC-1-III-	-	0.2	234	-		-		-		-		-	6.3	-	0.7	-	_ ا	004.475	044400
RRA Cloudy Moderate Inc. 10	SR2	Sunny	Moderate	16:42	5.4	Middle	-	0.2	237	-	-	-	-	-	_	-	-	-		-	2.7	-	5	821475	814182
SR3 Cloudy Moderate 16:10 Bottom Moderate 17:43 B.1 Surface 1.0 0.1 255 26.5 26.5 26.5 26.5 26.5 26.5 26.5						D-H	4.4	0.2	236	25.8	05.0	8.1	0.4	28.8	00.0	94.4	04.0	6.5	0.0	3.1		4			
SR3						Bottom	4.4	0.2	239	25.8	25.8	8.1	8.1	28.8	28.8	94.7	94.6	6.6	6.6	3.1		5			
SR3						0	1.0	0.1	255	26.5	00.5	8.0	0.0	30.2	00.0	91.9	04.0	6.2		4.7		6			
SR3 Cloudy Moderate 16:10 8.3 Middle 4.2 0.1 244 26:5 8.0 8.0 8.0 30.8 30.8 30.8 30.8 30.8 30						Suпасе	1.0	0.1	256	26.5	26.5	8.0	8.0	30.2	30.2	91.7	91.8	6.2		4.9		5			
Reform Moderate 17:43 Bottom Fig. 1.0	000	Oleverte	Madaata	40.40	0.0	NAC-1-III-	4.2	0.1	244	26.5	00.5	8.0	0.0	30.8	00.0	89.7	00.7	6.1	6.2	7.1	0.0	6	1 -	000450	007554
SR4A Cloudy Moderate 17:43 8.1 Surface 1.0 0.0 239 26.5 26.8 8.0 8.0 8.0 30.9 90.0 90.0 6.1 6.1 7.8 8 8	SK3	Cloudy	Moderate	16:10	8.3	Middle	4.2	0.1	238	26.5	26.5	8.0	8.0	30.8	30.8	89.7	89.7	6.1		7.3	6.6	7	l ′	822150	807554
SR4A Cloudy Moderate 17:43 8.1 Surface 1.0 0.0 226 26.8 8.0 8.0 8.0 31.3 31.3 93.0 93.0 6.2 6.2 6.8 8.5 4						D-#	7.3	0.1	245	26.5	2C F	8.0	0.0	30.9	20.0	89.9	00.0	6.1	C 4	7.8		9			
SR4A Cloudy Moderate 17:43 8.1 Middle 10.0 0.1 0.1 0.2 0.6 0.6 0.8 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0						Bottom	7.3	0.0	239	26.5	26.5	8.0	8.0		30.9	90.0	90.0	6.1	6.1	7.8		8			
SR4A Cloudy Moderate 17:43 8.1 Middle 1.0 0.1 222 26.8 26.8 26.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8						0	1.0	0.0		26.8	00.0	8.0	0.0	31.3	04.0	93.0	00.0	6.2		8.4		5			
SR4A Cloudy Moderate 17:43 8.1 Middle 4.1 0.0 206 26.8 26.8 8.0						Surface	1.0	0.1	222	26.8	26.8	8.0	8.0		31.3	93.0	93.0	6.2	0.0	8.5		4			
SR8 Sunny Moderate 16:15 5.8 Middle 25.2 25.2 8.1 8.0 93.1 93.1 6.2 9.8 93.1 6.3 6.3 1.3 4 93.1 93.3 93.3 93.3 6.3 6.3 1.3 4 93.1 93.3 93.3 93.3 93.3 6.3 6.3 1.3 4 93.1 93.3 93.3 93.3 93.3 93.3 93.3 93.3	0044	Olevete	Madaata	47.40	0.4	NAC-1-III-	4.1	0.0	206	26.8	00.0	8.0	0.0	31.4	04.4	93.1	00.4	6.2	6.2	9.5	0.0	6	_	047474	007000
SR8 Sunny Moderate 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.2 25.2 25.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	SR4A	Cloudy	Moderate	17:43	8.1	Middle	4.1	0.0	203	26.8	26.8	8.0	8.0	31.4	31.4	93.1	93.1	6.2		9.8	9.2	5	5	81/1/1	807808
SR8 Sunny Moderate 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.8 Middle 16:15 5.2 25.2 25.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1					1	Dattam	7.1	0.0	219	26.9	20.0	8.0	0.0	31.4	24.4	93.3	00.0			10.0	1	6	1	1	
SR8 Sunny Moderate 16:15 5.8 Middle 10:15 5.8 Sunny Moderate 16:15 5.8					1	Bottom					26.9		8.0		31.4		93.3		ხ.პ		1		1	1	
SR8 Sunny Moderate 16:15 5.8 Middle 16:15 5.8 Sunny Moderate 16:15 5.8						Curfoss	1.0	-	-	25.5	25.5	8.1	0.4	28.9	20.0	90.6	00.0	6.3		1.3		4			
SR8 Sunny Moderate 16:15 5.8 Middle					1	Surrace		-	-		25.5		8.1				90.8				1		1	1	
SR8 Sunny Moderate 16:15 5.8 Middle	CDO	C	Madeet	10:15	F 2	M: -1 -11 -		-	-			_		1	İ	_			6.3		0.0	-	_	000000	044000
	SK8	Sunny	ivioderatë	16:15	5.8	iviladie	-	-	-	-	⁻	-	1 -	-	1 -	-	-	-		-	2.3	-	٥	820398	811633
					1	Dattern	4.8	-	-	25.2	25.2	8.1		29.0	20.4	94.8	05.0	6.6		3.2	1	5	1	1	
					1	Bottom		-	-		25.2		8.1				95.0		b./		1		1	1	

Water Quality Monitoring Results on 28 October 23 during Mid-Ebb Tide

water Qual	ity Monit	oring Resu	its on		28 October 23	auring Mia-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	ity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Затіріі і д Бері		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	193	25.8	25.8	8.1	8.1	30.0	30.0	87.5	87.5	6.0		5.0		6			
					Surface	1.0	0.0	187	25.8	25.6	8.1	0.1	30.0	30.0	87.4	07.3	6.0	6.0	5.3		7			
C1	Rainy	Moderate	11:06	8.0	Middle	4.0	0.1	190	25.7	25.7	8.1	8.1	30.6	30.6	87.6	87.8	6.0	6.0	8.1	7.1	7	7	815643	804258
Ci	ixality	Wioderate	11.00	0.0	Middle	4.0	0.1	185	25.7	25.7	8.1	0.1	30.6	30.0	87.9	07.0	6.0		8.1	7.1	6	,	013043	004230
					Bottom	7.0	0.1	206	25.7	25.7	8.1	8.1	30.6	30.6	89.1 89.3	89.2	6.1	6.1	8.2		7			
					Bottom	7.0	0.0	212	25.7	23.7	8.1	0.1	30.6	30.0	89.3	03.2	6.1	0.1	8.1		7			
					Surface	1.0	0.5	163	26.0	26.0	8.1	8.1	28.6	28.6	85.2	85.2	5.9		8.6		10			
					Gundee	1.0	0.5	162	26.0	20.0	8.1	0.1	28.6	20.0	85.2	00.2	5.9	5.9	8.7		10			
C2	Rainy	Moderate	12:37	11.8	Middle	5.9	0.5	166	25.9	25.9	8.1	8.1	28.7	28.7	85.7	85.7	5.9	0.0	8.4	9.9	8	8	825704	806947
02	rtaniy	Moderate	12.07	11.0	Wildelie	5.9	0.5	165	25.9	20.0	8.1	0.1	28.7	20.7	85.7	00.7	5.9		8.2	0.0	9	Ü	020704	000047
					Bottom	10.8	0.6	178	25.9	25.9	8.1	8.1	28.7	28.7	87.5	87.6	6.1	6.1	12.6		7			
					Bottom	10.8	0.6	184	25.9	20.0	8.1	0	28.7	20	87.6		6.1	0	12.9		6			
					Surface	1.0	0.3	66	26.6	26.6	7.9	7.9	32.1	32.1	83.6		5.6		2.3		14			
						1.0	0.3	64	26.6		7.9		32.1		83.5		5.6	5.6	2.3		13			
C3	Fine	Moderate	12:26	10.2	Middle	5.1	0.3	79	26.6	26.6	7.9 7.9	7.9	32.2	32.2	82.2 82.2	82.2	5.5 5.5		2.4	2.4	12	12	822118	817824
						5.1	0.4	83	26.6				32.2						2.4		12			
					Bottom	9.2	0.4	75	26.6	26.6	7.9	7.9	32.3	32.3	83.3 83.8	83.6	5.6	5.6	2.4		12			
						9.2	0.4	77	26.6		7.9		32.2		•		5.6		2.4		11			
					Surface	1.0	0.1	173	25.9	25.9	8.1	8.1	29.9	29.9	86.9	86.9	6.0		3.5		6			
						1.0	0.2	169	25.9		8.1		30.0		86.8		6.0	6.0	3.5		5			
IM1	Rainy	Moderate	11:34	6.6	Middle	3.3	0.1	196	25.8	25.8	8.1 8.1	8.1	30.2	30.2	86.0 86.0	86.0	5.9 5.9		5.5 5.7	5.3	6	6	818366	806467
							0.1	197	25.8						_						6			
					Bottom	5.6 5.6	0.1	177 178	25.7 25.7	25.7	8.1 8.1	8.1	30.2	30.2	86.8 86.9	86.9	6.0	6.0	6.8		<u>6</u> 7			
						1.0	0.2	177							•	1								
					Surface	1.0	0.2	177	26.0 26.0	26.0	8.1 8.1	8.1	29.3	29.3	89.0 89.0	89.0	6.1		4.3	-	6			
						3.8	0.2	176	25.8		8.1		30.2				6.0	6.1	7.3	1	7			
IM2	Rainy	Moderate	11:39	7.5	Middle	3.8	0.1	176	25.8	25.8	8.1	8.1	30.2	30.2	86.5 86.6	86.6	6.0		7.5	6.7	6	7	819198	806255
						6.5	0.2	179	25.7		8.1		30.2		86.8		6.0		8.7	1	6			
					Bottom	6.5	0.2	177	25.7	25.7	8.1	8.1	30.1	30.1	86.8	86.8	6.0	6.0	8.4	1	8			
						1.0	0.2	156	26.0		8.1		28.5			<u> </u>	5.9		4.3		5			
					Surface	1.0	0.2	150	26.0	26.0	8.1	8.1	28.6	28.6	85.9 85.9	85.9	5.9		4.8	1	6			
						4.0	0.2	161	25.9		8.1		29.1				5.9	5.9	7.2	1	5			
IM7	Rainy	Moderate	12:01	8.0	Middle	4.0	0.1	166	25.9	25.9	8.1	8.1	29.1	29.1	85.8 85.8	85.8	5.9 5.9		7.2	7.1	5	5	821338	806851
						7.0	0.1	139	25.9		8.1		29.2		87.0	 	6.0		9.6	1	5			
					Bottom	7.0	0.1	139	25.9	25.9	8.1	8.1	29.2	29.2	87.1	87.1	6.0	6.0	9.6	1	5			
DA: Donth Avor			1	·							<u> </u>	<u> </u>		r	0		. 0.0		, 0.0				·	

DA: Depth-Averaged

Water Quality Monitoring Results on 28 October 23 during Mid-Ebb Tide

Water Quan	,	••••• <u>•</u>			26 October 23	uuring miu-		•																
Monitoring	Weather	Sea	Sampling	Water	Complia - Door	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salinit	y (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	(Easting)
					Ourteen	1.0	0.3	128	26.6	00.0	8.1	0.4	30.7	00.7	91.6	04.7	6.2		3.9		12			
					Surface	1.0	0.4	126	26.6	26.6	8.1	8.1	30.7	30.7	91.8	91.7	6.2		4.0		11			
IMAO	Daine	Madasata	40.50	0.0	M:dalla	4.5	0.4	104	26.6	20.0	8.1	0.4	30.7	20.7	92.4	00.0	6.2	6.2	4.6	1 40	10	40	000000	000004
IM10	Rainy	Moderate	13:52	9.0	Middle	4.5	0.4	105	26.6	26.6	8.1	8.1	30.7	30.7	92.7	92.6	6.3		4.5	4.6	12	12	822223	809821
					Dattan	8.0	0.4	105	26.6	00.0	8.1	0.4	30.7	00.7	93.6	04.0	6.3	0.4	5.5		12			
					Bottom	8.0	0.4	98	26.6	26.6	8.1	8.1	30.7	30.7	94.4	94.0	6.4	6.4	5.4		12			
					Overforce	1.0	0.4	90	26.7	00.7	8.1	0.4	30.4	00.4	91.2	04.0	6.2		4.1		10			
					Surface	1.0	0.3	88	26.7	26.7	8.1	8.1	30.4	30.4	91.4	91.3	6.2	6.2	4.1	1	10			
IM11	Daine	Madasata	40.40	7.0	Middle	3.8	0.4	111	26.7	20.7	8.1	8.1	30.5	20.5	91.8	91.9	6.2	6.2	5.0	5.2	10	11	821505	810545
IIVI I	Rainy	Moderate	13:46	7.6	Middle	3.8	0.4	106	26.7	26.7	8.1	8.1	30.5	30.5	91.9	91.9	6.2		5.0	5.2	10	- 11	821505	810545
					Dettern	6.6	0.4	127	26.4	20.4	8.1	0.4	30.7	20.7	92.8	02.0	6.3		6.6	1	12			
					Bottom	6.6	0.3	120	26.3	26.4	8.1	8.1	30.7	30.7	93.1	93.0	6.3	6.3	6.5	1	11			
					Overforce	1.0	0.4	94	26.7	00.7	8.1	0.4	30.1	00.4	93.5	00.5	6.3		2.3		11			
					Surface	1.0	0.4	96	26.7	26.7	8.1	8.1	30.1	30.1	93.5	93.5	6.3		2.3		12			
	5 .		40.40			3.8	0.5	114	26.7		8.1		30.2		94.0	0.4.0	6.4	6.4	4.3	١	12		004400	044500
IM12	Rainy	Moderate	13:42	7.6	Middle	3.8	0.4	117	26.7	26.7	8.1	8.1	30.2	30.2	94.4	94.2	6.4	,	4.3	4.0	11	11	821166	811520
					5	6.6	0.5	101	26.6		8.1		30.2		95.5	0.5.0	6.5		5.4	1	10			
					Bottom	6.6	0.4	95	26.6	26.6	8.1	8.1	30.2	30.2	96.1	95.8	6.5	6.5	5.4	1	10			
						1.0	0.0	70	26.7		8.1		30.8		91.4		6.2		2.3		9			
					Surface	1.0	0.0	62	26.7	26.7	8.1	8.1	30.8	30.8	91.6	91.5	6.2		2.3		10			
						2.1	0.0	42	-		-		-		-		-	6.2	-	1	-			
SR1A	Fine	Moderate	13:02	4.2	Middle	2.1	0.1	39	-	-	-	-	-	-	-	-	-		-	3.0	-	10	819974	812658
						3.2	-	68	26.6		8.1		30.8		93.2		6.3		3.8	1	10			
					Bottom	3.2	0.0	74	26.6	26.6	8.1	8.1	30.7	30.7	95.0	94.1	6.4	6.4	3.7		11			
						1.0	0.4	35	26.7		8.1		31.1		89.7		6.0		3.0		8			
					Surface	1.0	0.4	38	26.7	26.7	8.1	8.1	31.2	31.1	89.8	89.8	6.0		3.0		7			
						_	0.4	31	-		-		-		-		-	6.0	-	1	-	_		
SR2	Fine	Moderate	12:49	4.6	Middle	-	0.3	37	-	-	-	-	-	-	-	-	-		-	3.0	-	8	821454	814146
						3.6	0.4	51	26.6		8.1		31.6		91.5		6.2		3.1	1	9			
					Bottom	3.6	0.4	51	26.6	26.6	8.1	8.1	31.6	31.6	92.2	91.9	6.2	6.2	3.1		8			
						1.0	0.3	162	26.1		8.0		27.9		85.6		5.9		8.4		3			
					Surface	1.0	0.3	163	26.1	26.1	8.0	8.0	27.9	27.9	85.5	85.6	5.9		8.6	1	4			
						4.3	0.4	163	26.0		8.0		28.5		86.1		6.0	6.0	6.0	1	5	_		
SR3	Rainy	Moderate	12:09	8.5	Middle	4.3	0.4	168	26.0	26.0	8.1	8.0	28.5	28.5	86.2	86.2	6.0		6.1	7.6	4	4	822127	807589
						7.5	0.3	159	26.0		8.1		28.8		87.1		6.0		8.3		4			
					Bottom	7.5	0.3	163	25.9	26.0	8.1	8.1	28.8	28.8	87.2	87.2	6.0	6.0	8.3	1	5			
						1.0	0.0	103	25.9		8.1		29.1		84.8		5.8		5.5		9			
					Surface	1.0	0.0	98	25.9	25.9	8.1	8.1	29.1	29.1	84.8	84.8	5.8		5.5	1	8			
						4.4	0.0	122	25.9		8.1		28.9		84.8		5.9	5.9	6.8	1	8	_		
SR4A	Rainy	Moderate	10:40	8.8	Middle	4.4	0.0	126	25.9	25.9	8.1	8.1	28.7	28.8	84.8	84.8	5.9		6.9	6.8	8	8	817201	807816
					5.0	7.8	0.0	123	25.9	05.7	8.1		29.4		84.9	0.7.	5.8		7.9	1	7			
					Bottom	7.8	0.0	121	25.9	25.9	8.1	8.1	28.9	29.1	84.9	84.9	5.9	5.9	7.9	1	8			
						1.0	-	-	26.4		8.1		30.8		94.8		6.4		2.3	Ì	9			
					Surface	1.0	-	-	26.3	26.4	8.1	8.1	30.9	30.8	95.9	95.4	6.5		2.3	1	10			
						-	_	-	-		-		-		-		-	6.5	-	1	-	_		
SR8	Fine	Moderate	13:38	4.4	Middle	-	-	-	-	-	_	-		-	_	-	_		_	3.1	_	9	820393	811619
					5	3.4	-	_	26.0		8.1		31.0		101.8	404.	6.9		3.9	1	7			
					Bottom	3.4	-	-	25.9	26.0	8.1	8.1	30.9	30.9	101.5	101.7	7.0	7.0	3.9	1	8			
DA: Donth Aver					1	JT			_0.0		Ų. I		00.0						5.5		_ ,			

DA: Depth-Averaged

Water Quality Monitoring Results on 28 October 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	39	25.8	25.8	8.1	8.1	30.0	30.0	86.7	86.7	6.0		4.4		5			
					Gundoc	1.0	0.4	43	25.8	20.0	8.1	0.1	30.0	00.0	86.7	00.7	6.0	6.0	4.4		6			
C1	Rainy	Moderate	18:33	8.2	Middle	4.1	0.3	23	25.8	25.8	8.1	8.1	30.4	30.4	85.5 85.5	85.5	5.9	0.0	4.2	5.6	6	6	815625	804263
01	rtaniy	Moderate	10.00	0.2	Middle	4.1	0.3	28	25.8	20.0	8.1	0.1	30.4	00.4	85.5	00.0	5.9		4.2	0.0	5	Ü	010020	004200
					Bottom	7.2	0.4	17	25.8	25.8	8.1	8.1	30.4	30.4	85.8	85.9	5.9	5.9	8.2		7			
					Bottom	7.2	0.3	19	25.8	20.0	8.1	0	30.4	00.1	86.0	00.0	5.9	0.0	8.2		6			
					Surface	1.0	0.1	166	26.0	26.0	8.1	8.1	28.3	28.3	85.0	85.0	5.9	Į.	4.4	1	5			
					Cundoo	1.0	0.1	164	26.0	20.0	8.1	0	28.3	20.0	85.0	00.0	5.9	5.9	4.4	1	6			
C2	Rainy	Rough	16:44	11.7	Middle	5.9	0.2	163	25.9	25.9	8.1	8.1	28.8	28.8	85.0	85.0	5.9		10.4	9.0	5	6	825665	806949
	,	3	-			5.9	0.1	157	25.9		8.1		28.8		84.9		5.9		10.2	1	6			
					Bottom	10.7	0.2	157	25.9	25.9	8.1 8.1	8.1	28.8	28.8	84.6	84.6	5.8	5.8	12.2	4	7			
						10.7 1.0	0.2	160 250	25.9 26.6				28.8		84.5		5.8 6.1		12.3 5.0	1	6 7			1
					Surface	1.0	0.5	255	26.6	26.6	8.1 8.1	8.1	30.9	30.9	90.9	91.0	6.1	ł	5.0	-	7			
						4.1	0.5	276	26.6		8.1		31.1		91.7		6.2	6.2	5.3	-	6			
C3	Misty	Moderate	18:03	8.2	Middle	4.1	0.4	279	26.6	26.6	8.1	8.1	31.2	31.2	92.0	91.9	6.2	ł	5.2	5.5	7	7	822129	817818
						7.2	0.5	267	26.6		8.1		31.4		93.7		6.3		6.2	1	6			
					Bottom	7.2	0.4	264	26.6	26.6	8.1	8.1	31.3	31.3	94.8	94.3	6.4	6.4	6.3	1	7			
					0.7	1.0	0.2	28	26.0	20.0	8.1		29.3		87.3		6.0		2.5		6			
					Surface	1.0	0.2	26	26.0	26.0	8.1	8.1	29.3	29.3	87.2	87.3	6.0		2.6	1	5			
IM1	Daine	Moderate	18:09	7.0	Middle	3.6	0.2	16	25.9	25.9	8.1	8.1	29.9	29.9	86.5	86.5	5.9	6.0	3.7	6.4	4	4	818339	806474
IIVI I	Rainy	Moderate	18:09	7.2	Middle	3.6	0.2	19	25.9	25.9	8.1	0.1	29.9	29.9	86.4	86.5	5.9	Ĭ	3.9	6.4	4	4	818339	806474
					Bottom	6.2	0.2	26	25.8	25.8	8.1	8.1	30.3	30.3	86.5	86.7	5.9	6.0	12.8		4			
					Bottom	6.2	0.3	27	25.8	23.0	8.1	0.1	30.3	30.3	86.8	00.7	6.0	0.0	12.7		3			
					Surface	1.0	0.1	307	26.0	26.0	8.1	8.1	29.2	29.2	86.9	87.0	6.0		3.2		5			
					- Cundoo	1.0	0.1	308	26.0	20.0	8.1	0	29.2	20.2	87.0	07.0	6.0	6.0	3.2	1	6			
IM2	Rainy	Moderate	18:03	6.7	Middle	3.4	0.1	325	25.8	25.8	8.1	8.1	30.1	30.1	86.4	86.4	5.9		5.2	5.0	5	6	819174	806223
	,					3.4	0.1	327	25.8		8.1		30.1		86.4		5.9		5.4		6			
					Bottom	5.7	0.1	296	25.7	25.7	8.1	8.1	30.3	30.3	87.3 87.4	87.4	6.0	6.0	6.5	1	6			
						5.7	0.1	298	25.7		8.1		30.3				6.0		6.4		6			
					Surface	1.0	0.2	262	25.9 25.9	25.9	8.1 8.1	8.1	28.9	28.9	86.3 86.3	86.3	6.0	}	4.7	-	5			
						4.0	0.2	254 274									6.0	6.0	5.0	4	5			
IM7	Rainy	Moderate	17:29	8.0	Middle	4.0	0.2	274	25.9 25.9	25.9	8.1 8.1	8.1	29.3 29.3	29.3	87.1 87.3	87.2	6.0	ł	7.8 7.8	6.8	5 4	4	821325	806844
						7.0	0.3	286	25.9		8.1		29.3		88.1		6.1		7.8	1	3			
					Bottom	7.0	0.2	278	25.9	25.9	8.1	8.1	29.3	29.2	88.3	88.2	6.1	6.1	7.8	1	4			1
			I	l .		1.0	U.Z	210	20.9		0.1		29.2		00.3	L	0.1		1.0	<u> </u>	4		l	<u> </u>

DA: Depth-Averaged

Water Quality Monitoring Results on 28 October 23 during Mid-Flood Tide

n T					26 October 23	during wid-					_		_											
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	i 1	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.2	231	26.7		8.1		30.7		88.5		6.0		4.1		9			
					Surface	1.0	0.1	235	26.7	26.7	8.1	8.1	30.7	30.7	88.6	88.6	6.0		4.1		8			
						4.0	0.2	243	26.7		8.1		30.7		88.7		6.0	6.0	5.0		8			
IM10	Misty	Moderate	16:45	8.0	Middle	4.0	0.2	248	26.7	26.7	8.1	8.1	30.7	30.7	88.7	88.7	6.0		5.0	5.2	8	8	822216	809825
						7.0	0.2	208	26.7		8.1		30.7		88.9		6.0		6.6		8			
					Bottom	7.0	0.2	202	26.7	26.7	8.1	8.1	30.7	30.7	89.0	89.0	6.0	6.0	6.5		8			
						1.0	0.2	257	26.6		8.1		30.7		92.2		6.2		2.1		8			
					Surface	1.0	0.2	254	26.6	26.6	8.1	8.1	30.7	30.7	92.4	92.3	6.2		2.1		7			
						3.8	0.2	247	26.6		8.1		30.7		93.2		6.3	6.3	4.3		9			
IM11	Misty	Moderate	17:05	7.6	Middle	3.8	0.3	248	26.6	26.6	8.1	8.1	30.7	30.7	93.6	93.4	6.3		4.3	4.1	9	9	821489	810541
						6.6	0.2	264	26.6		8.1		30.7		94.8		6.4		5.8		9			
					Bottom	6.6	0.2	262	26.6	26.6	8.1	8.1	30.7	30.7	95.0	94.9	6.4	6.4	5.9		10			
						1.0	0.2	273	26.7		8.1		30.6		90.4		6.1		3.3		9			
					Surface	1.0	0.3	275	26.7	26.7	8.1	8.1	30.7	30.6	90.5	90.5	6.1		3.3		8			
						4.1	0.3	259	26.7		8.1		30.7		91.5		6.2	6.2	4.9		8			
IM12	Misty	Moderate	17:09	8.2	Middle	4.1	0.3	255	26.6	26.7	8.1	8.1	30.7	30.7	91.7	91.6	6.2		4.9	4.6	9	9	821158	811509
						7.2	0.3	280	26.6		8.1		30.7		92.5		6.2		5.5		9			
					Bottom	7.2	0.3	285	26.6	26.6	8.1	8.1	30.7	30.7	92.7	92.6	6.3	6.3	5.4		10			
				l I		1.0	0.2	202	26.8						91.1				3.9		8			l I
					Surface	1.0	0.0	202	26.8	26.8	8.1 8.1	8.1	30.4	30.4	91.1	91.2	6.2		3.9		9			
									_		_				1			6.2						
SR1A	Misty	Moderate	17:27	4.3	Middle	2.2	0.0	175	-	-	-	-	-	-	-	-	-		-	4.4	-	9	819972	812656
								181			_				+		_		-					
					Bottom	3.3	0.0	212	26.8	26.8	8.1	8.1	30.4	30.4	91.3	91.4	6.2	6.2	4.9		10			
					1	3.3	0.0	208	26.8		8.1		30.4		91.4		6.2		5.0		10			
					Surface	1.0	0.1	244	26.7	26.7	8.0	8.0	30.5	30.5	90.7	90.8	6.1		5.0		11			
						1.0	0.2	251	26.7		8.0		30.5		90.8		6.1	6.1	5.0		10			
SR2	Misty	Moderate	17:47	5.6	Middle	-	0.1	220	-	-	-	-	-	-		-	-		-	5.6	-	9	821467	814170
						-	0.1	225	-		-		- 00.5		-		-		-		-			
					Bottom	4.6	0.2	240	26.7	26.7	8.0	8.0	30.5	30.4	91.2	91.2	6.2	6.2	6.3		6 7			
						4.6	0.2	243	26.7				30.4				6.2		6.3					
					Surface	1.0	0.2	241	26.1	26.1	8.1	8.1	28.2	28.2	85.5	85.6	5.9		3.8		3			
						1.0	0.2	237	26.1		8.1		28.2		85.6		5.9	6.0	4.0		3			
SR3	Rainy	Rough	17:06	8.5	Middle	4.3	0.1	241	25.9	25.9	8.1	8.1	28.9	28.9	86.6	86.7	6.0		6.5	5.6	3	3	822130	807566
	<i>,</i>	Ü				4.3	0.1	241	25.9		8.1		28.9		86.7		6.0		6.5	4	3			
					Bottom	7.5	0.1	225	25.9	25.9	8.1	8.1	29.1	29.0	86.9	86.9	6.0	6.0	6.5		3			
						7.5	0.1	231	25.9		8.1		29.0		86.9		6.0		6.4		4			
					Surface	1.0	0.0	172	26.0	26.0	8.1	8.1	29.5	29.5	85.2	85.2	5.9		3.2		6			
						1.0	0.0	168	26.0		8.1		29.5		85.1		5.9	5.9	3.3		7			
SR4A	Rainy	Moderate	19:05	8.2	Middle	4.1	0.0	182	25.8	25.8	8.1	8.1	30.0	30.0	84.6	84.6	5.8		4.9	4.5	7	6	817200	807806
	,					4.1	0.0	186	25.8		8.1		30.0		84.6		5.8		5.0		6	-		
					Bottom	7.2	0.0	175	25.8	25.8	8.1	8.1	30.1	30.1	85.0	85.0	5.9	5.9	5.1	1	5			
			<u> </u>			7.2	0.1	170	25.8		8.1	<u> </u>	30.1		85.0		5.9		5.1		5			
					Surface	1.0	-	-	26.7	26.7	8.0	8.0	30.6	30.6	92.3	92.4	6.2		3.5	1	7			
						1.0	-	•	26.7		8.0		30.6		92.4		6.2	6.2	3.5		8			
SR8	Misty	Moderate	17:15	5.6	Middle	-	-	-	-	_	-	_	-	_	-	_	-		-	4.3	-	8	820372	811638
	,			2.0		-	-	-	-		-		-		-		-		-	1	-	-		
					Bottom	4.6	-	-	26.6	26.6	8.1	8.1	30.6	30.6	94.0	94.3	6.3	6.4	5.1	1	8			
					201.0	4.6	-	-	26.6	20.0	8.1	J	30.6	00.0	94.6	00	6.4	J	5.1		8			

Water Quality Monitoring Results on 31 October 23 during Mid-Ebb Tide

Monitoring Station Sea Sampling Depth (m) Sampling Depth (m) Sampling Depth (m) Speed (m/s) Speed (m/s) Direction Value Average Value	pended Solids (mg/L) alue DA 6 7 8 8 7 10 111 7 8 8 8 8	Coordinate Coordinate HK Grid (Northing) (East
Condition Condition Condition Time Depth (m) Condition	6 7 8 7 10 11 7 8 8	(Northing) (East
C1 Sunny Moderate 14:27 8.1 Middle 1.0 0.2 201 27.0 27.1 8.0 8.0 31.2 31.2 87.1 87.1 5.8 5.7 2.4 4.1 0.2 218 26.6 8.0 8.0 8.0 31.6 31.6 31.6 82.2 82.2 5.5 5.5 5.7 2.3 2.5 5.5 5.7 2.3 2.5 5.5 5.7 2.3 2.3 2.5 5.5 5.7 2.3 2.3 2.5 5.5 5.7 2.4 2.8 2.2 5.5 5.5 5.5 5.7 2.3 2.3 2.5 5.5 5.5 5.7 2.3 2.3 2.5 5.5 5.5 5.5 5.5 5.0 2.3 2.3 2.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	7 8 8 7 110 111 7 8 8 8	815606 8042
C1 Sunny Moderate 14:27	8 8 8 110 111 7 8 8 8	815606 8042
C1 Sunny Moderate 14:27 8.1 Middle 4.1 0.2 218 26.6 4.1 0.2 218 26.6 8.0 8.0 8.0 31.6 31.6 82.2 82.2 5.5 5.5 5.0 2.3 2.3 2.5 5.5 5.5 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	7 10 11 7 8	815606 8042
C1 Sulliy Modelate 14.27	7 10 11 7 8	815606 8042
Bottom 7.1 0.2 227 26.5 26.5 8.0 8.0 31.9 31.9 80.2 80.2 5.4 5.4 5.4 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	7 8	
Sunny Rough 12:49 P.3 Surface 1.0 0.2 350 26.7 26.7 26.7 8.1 8.1 30.9 30.8 91.6 91.6 6.2 91.6 6.2 4.3 4.3 4.7 0.2 358 26.7 26.7 8.1 8.1 8.1 30.9 30.9 30.9 91.8 91.8 6.2 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	7 8	
C2 Sunny Rough 12:49 9.3 Middle 1.0 0.2 349 26.7 26.7 8.1 8.1 30.8 30.8 91.6 91.6 6.2 6.2 3.9 4.3 4.5 4.7 0.1 353 26.7 26.5 8.1 8.1 30.9 30.9 91.8 91.8 6.2 6.2 4.3 4.3 4.9 4.9 4.9 4.9 4.9 4.7 0.1 353 26.5 26.5 8.1 8.1 30.9 30.9 91.8 91.8 6.2 6.2 6.4 6.4	8	
C2 Sunny Rough 12:49 9.3 Middle 1.0 0.2 349 26.7 8.1 30.8 91.6 6.2 6.2 4.3 4.3 4.5 4.7 0.2 358 26.7 8.1 8.1 30.9 30.9 91.8 91.8 6.2 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 1.0 4.3 4.3 4.9 4.9 1.0 4.3 4.3 4.9 4.9 1.0 4.3 4.3 4.9 4.9 1.0 4.3 4.3 4.9 4.9 1.0 4.3 4.3 4.9 4.9 1.0 4.3 4.3 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	ρ	
C2 Sunny Rough 12:49 9.3 Middle 4.7 0.2 358 26.7 26.7 8.1 8.1 30.9 30.9 91.8 91.8 6.2 4.3 4.9 1	3 -	
Bottom A-7 O.1 353 26.7 20.7 8.1 0.1 30.9 30.9 91.8 91.8 6.2 4.4 4.5 6.2 6.4 6.4 6.2 6.4 6.4 6.2 6.4 6.4 6.4 6.4 6.4 6.5 6.2 6.4 6.4 6.4 6.4 6.5 6.		825703 8069
	9	825703 8068
	10	
40 00 07 000 07 000 07 000 007 007	9	
Surface 1.0 0.2 67 26.6 26.6 8.1 8.1 28.7 28.7 86.5 86.6 5.9 7.3	8	
1.0 0.2 72 26.5 20.0 8.1 0.1 28.8 20.7 86.6 00.0 5.9 7.7 7.7	7	
C3 C1 Maderia Maderia	8 8	822085 8177
C3 Sunny Moderate 14:39 11.7 Middle 5.9 0.2 91 26.1 26.1 8.1 8.1 29.3 29.3 80.3 80.3 5.5 3.7 8.2 8.2 8.3	7	822085 8177
	8	
10.7 0.2 66 25.9 25.9 8.1 8.1 29.4 29.4 81.5 81.4 5.6 5.6 9.1	8	
	7	
	8	
NAA Communication National 7.0 National 3.6 0.1 184 26.6 20.0 8.0 0.0 31.2 24.0 83.2 22.0 5.6 3.2 24.0	8 8	818370 8064
Suriny Rough 14:03 7.2 Middle 3.6 0.2 181 26.6 20.0 8.0 31.2 31.2 83.2 63.2 5.6 3.2 3.4	8	010370 0004
	8	
6.2 0.1 202 26.6 8.0 31.5 31.5 82.6 82.0 5.6 3.0 4.2	9	
	13	
	12	
1840 Company Province 4040 70 Missalin 3.8 0.0 109 26.6 200 8.0 0.0 31.3 24.0 83.7 20.7 5.6 3.2 20.0 1	10	819159 8062
3.8 0.0 116 26.6 26.6 8.0 31.2 51.2 83.7 64.7 5.6 3.3 51.2 5	10	013133 0002
	9	
6.6 0.1 108 26.6 20.0 8.0 31.4 31.4 85.2 65.2 5.7 5.7 2.9	8	
	10	
	9	
IM7 Suppy Pough 13:21 86 Middle 4.3 0.1 72 26.6 266 8.0 80 30.5 20.5 85.8 85.8 55.8 4.4 5.0	7 8	821356 8068
	8	021330 0000
7 1 1 1 1 Rottom	7	
7.6 0.2 52 26.6 20.0 8.0 31.2 31.2 84.1 64.1 5.7 5.7 7.5		1

DA: Depth-Averaged

Water Quality Monitoring Results on 31 October 23 during Mid-Ebb Tide

TTUICI QUU	,				OT OUTOBET ZO	auring ima					_										_			
Monitoring	Weather	Sea	Sampling	Water	Complian Don	\$h ()	Current Speed	Current	Water To	emperature (°C)		рН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					2 (1.0	0.1	6	26.0	00.0	8.1		28.4	00.4	82.2		5.7		5.7	Ì	8			
					Surface	1.0	0.1	2	26.0	26.0	8.1	8.1	28.4	28.4	82.1	82.2	5.7		6.0	1	9			
	_					4.3	0.1	7	26.0		8.1		28.4		82.0		5.7	5.7	6.8	1	6	_		
IM10	Sunny	Moderate	12:54	8.5	Middle	4.3	0.1	0	26.0	26.0	8.1	8.1	28.4	28.4	82.0	82.0	5.7		6.8	6.5	7	7	822257	809848
					_	7.5	0.1	11	26.0		8.1		28.4		82.0		5.7		6.9	1	6			
					Bottom	7.5	0.0	12	26.0	26.0	8.1	8.1	28.4	28.4	82.1	82.1	5.7	5.7	6.9	1	6			
			ì			1.0	0.1	59	26.1		8.1		28.5		83.7		5.8		3.6		7			
					Surface	1.0	0.1	59	26.1	26.1	8.1	8.1	28.5	28.5	83.7	83.7	5.8		3.6	1	6			
						4.0	0.1	62	26.0		8.1		28.5		83.5		5.8	5.8	5.0	1	8			
IM11	Sunny	Moderate	13:37	8.0	Middle	4.0	0.1	62	26.0	26.0	8.1	8.1	28.5	28.5	83.5	83.5	5.8		5.1	4.6	7	8	821520	810539
						7.0	0.1	53	26.0		8.1		28.5		83.9		5.8		5.0	-	9			
					Bottom	7.0	0.2	58	26.0	26.0	8.1	8.1	28.5	28.5	83.9	83.9	5.8	5.8	5.0	-	8			
									•		_													
					Surface	1.0	0.2	99	26.5	26.5	8.1	8.1	28.6	28.6	84.8	84.8	5.8		4.6	4	8 7			
						1.0	0.1	104	26.4				28.6				5.8	5.8	4.7	4				
IM12	Sunny	Moderate	13:42	8.3	Middle	4.2	0.2	78	26.0	26.0	8.1	8.1	28.6	28.6	84.0	84.1	5.8		7.0	6.8	8	7	821170	811539
	,					4.2	0.2	83	26.0		8.1		28.6		84.2		5.8		7.8	4	7			
					Bottom	7.3	0.2	107	26.0	26.0	8.1	8.1	28.5	28.5	86.6	86.8	6.0	6.0	8.4	4	6			
						7.3	0.2	99	26.0		8.1		28.5		86.9		6.0		8.4		5			
					Surface	1.0	-	7	26.1	26.1	8.1	8.1	28.5	28.5	83.1	83.1	5.7		4.2	_	6			
						1.0	0.0	8	26.1		8.1		28.5		83.1		5.7	5.7	4.3	_	6			
SR1A	Sunny	Moderate	14:07	5.2	Middle	2.6	0.0	3	-	_	-	_	-	-	-	↓ -	-		-	4.4	-	7	819973	812653
• • • • • • • • • • • • • • • • • • • •						2.6	-	6	-		-		-		-		-		-	1	-			
					Bottom	4.2	0.0	21	26.0	26.0	8.1	8.1	28.5	28.5	84.6	85.0	5.9	5.9	4.3		8			
					Bottom	4.2	0.0	16	26.0	20.0	8.1	0	28.5	20.0	85.3	00.0	5.9	0.0	4.6		8			
					Surface	1.0	0.2	50	26.1	26.1	8.1	8.1	28.5	28.5	83.6	83.6	5.8		3.9		8			
					Guillago	1.0	0.2	44	26.0	20	8.1	0	28.5	20.0	83.5	00.0	5.8	5.8	4.0		9			
SR2	Sunny	Moderate	14:20	5.5	Middle	-	0.2	37	-	_	_	_	-	_	-	1 .	-	0.0	-	4.6	-	8	821461	814148
OINZ	Guilly	Woderate	14.20	5.5	Middle	-	0.2	37	-		-		-		-		-			4.0	-	O	021401	014140
					Bottom	4.5	0.2	48	25.9	25.9	8.1	8.1	28.5	28.5	85.2	85.5	5.9	5.9	5.2		7			
					Bottom	4.5	0.2	52	25.9	25.9	8.1	0.1	28.5	20.5	85.7	03.3	5.9	5.	5.3		8			
					Surface	1.0	0.1	27	26.9	26.9	8.1	8.1	30.5	30.5	89.7	89.7	6.0		2.9		9			
					Surface	1.0	0.1	27	26.9	26.9	8.1	0.1	30.5	30.5	89.7	09.7	6.0	5.9	2.9		8			
SR3	Cummu	Davish	42.44	0.0	Middle	4.5	0.1	48	26.6	20.0	8.0	0.0	30.6	20.0	86.3	00.0	5.8	5.9	4.6	4.6	7		000444	807571
SK3	Sunny	Rough	13:14	8.9	ivildale	4.5	0.1	53	26.6	26.6	8.0	8.0	30.6	30.6	86.3	86.3	5.8		4.6	4.6	8	8	822141	80/5/1
					D. H	7.9	0.1	26	26.6	00.0	8.0	0.0	31.2	04.0	84.5	04.0	5.7		6.3		7			
					Bottom	7.9	0.1	31	26.6	26.6	8.0	8.0	31.2	31.2	84.6	84.6	5.7	5.7	6.3	1	7			
						1.0	0.0	73	27.4		8.0		31.0		89.3		6.0		2.5	Ì	7			
					Surface	1.0	0.0	68	27.3	27.4	8.0	8.0	31.0	31.0	89.3	89.3	6.0		2.5	1	7			
	_					4.9	0.0	77	26.6		8.0		31.5		83.7		5.6	5.8	2.1	1	7			
SR4A	Sunny	Rough	14:50	9.7	Middle	4.9	0.0	77	26.6	26.6	8.0	8.0	31.5	31.5	83.6	83.7	5.6		2.1	2.8	6	7	817202	807806
					_	8.7	0.0	41	26.6		8.0		31.7		81.4		5.5		3.8	1	6			
					Bottom	8.7	0.0	44	26.7	26.7	8.0	8.0	31.6	31.6	81.5	81.5	5.5	5.5	3.8	1	6			
	i i		i i	i I		1.0	-	-	26.3	l	8.1	1	28.5		85.4	i i	5.9		6.2	l l	9			<u> </u>
					Surface	1.0	-	-	26.2	26.3	8.1	8.1	28.5	28.5	85.3	85.4	5.9		6.4	1	9			
						-	_	-	-		- 0.1	1	-		-		-	5.9		1	-			
SR8	Sunny	Moderate	13:46	4.7	Middle	-	-	-	+ -	-	H			-	-	† -	-		-	5.3	-	9	820398	811604
						3.7	-	-	26.0		8.1	1	28.5		86.7		6.0		4.2	1	9			
					Bottom	3.7	-		26.0	26.0	8.1	8.1	28.5	28.5	86.9	86.8	6.0	6.0	4.3	1	8			
	1		1		l	5.1	-	-	20.0		0.1	1	20.3		00.9	1	0.0		4.5	1	U			

DA: Depth-Average

Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

<u>Value exceeding Action Level is underlined;</u> <u>Value exceeding Limit Level is bolded and underlined</u>

Water Quality Monitoring Results on 31 October 23 during Mid-Flood Tide

Water Quar	ity worm	orning ixcou	113 011		31 October 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	ŗ	Ή	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	21	26.5	26.5	8.0	8.0	30.3	30.3	92.6	92.6	6.3		6.0		6			
					Surface	1.0	0.2	21	26.5	20.5	8.0	0.0	30.3	30.3	92.5	92.0	6.3	6.3	6.1	1	7			
C1	Cuppy	Dough	08:02	7.4	Middle	3.7	0.3	43	26.4	26.4	8.0	8.0	30.9	30.9	91.7	91.7	6.2	0.3	6.3	6.6	7	7	815630	804260
CI	Sunny	Rough	08:02	7.4	Middle	3.7	0.3	49	26.4	26.4	8.0	8.0	30.9	30.9	91.6	91.7	6.2		6.8	0.0	8	/	813630	804260
					Bottom	6.4	0.3	18	26.3	26.3	8.0	8.0	31.1	31.1	88.4	88.4	6.0	6.0	7.2	1	6			
					DOLLOITI	6.4	0.3	21	26.3	20.3	8.0	0.0	31.1	31.1	88.4	00.4	6.0	6.0	7.3		8			
					Surface	1.0	0.5	356	26.6	26.6	8.1	8.1	30.8	30.8	92.3	92.3	6.2		7.2		6			
					Surface	1.0	0.5	1	26.6	20.0	8.1	0.1	30.8	30.0	92.3	92.3	6.2	6.2	7.2		5			
C2	Sunny	Moderate	09:50	8.6	Middle	4.3	0.5	4	26.6	26.6	8.1	8.1	30.8	30.8	91.8	91.8	6.2	0.2	5.8	6.3	6	7	825695	806923
02	Suring	Woderate	09.50	0.0	Middle	4.3	0.5	5	26.6	20.0	8.1	0.1	30.8	30.0	91.8	91.0	6.2		5.8	0.5	6	,	023093	000923
					Bottom	7.6	0.5	334	26.6	26.6	8.1	8.1	30.9	30.9	92.4	92.5	6.2	6.2	5.8		8			
					Bottom	7.6	0.4	327	26.6	20.0	8.1	0.1	30.9	50.5	92.5	32.3	6.2	0.2	5.8		9			
					Surface	1.0	0.5	257	26.0	26.0	8.0	8.0	29.5	29.5	79.3	79.3	5.5		3.1		6			
					Gundec	1.0	0.5	263	26.0	20.0	8.0	0.0	29.5	20.0	79.3	70.0	5.5	5.5	3.1	1	6			
C3	Sunny	Moderate	08:00	12.5	Middle	6.3	0.5	266	25.9	25.9	8.0	8.0	29.6	29.6	79.5	79.5	5.5	0.0	4.4	4.0	8	7	822105	817783
						6.3	0.4	259	25.9		8.0		29.6		79.5		5.5		4.6		7			
					Bottom	11.5	0.5	245	25.9	25.9	8.0	8.0	29.6	29.6	80.5	80.6	5.5	5.6	4.5	ļ	9			
						11.5	0.5	244	25.9		8.0		29.6		80.7		5.6		4.5		8			
					Surface	1.0	0.2	16	26.6	26.6	8.1	8.1	30.2	30.2	93.3	93.3	6.3		6.5	l	10			
						1.0	0.2	17	26.6		8.1		30.2		93.3		6.3	6.3	6.5	ļ	10			
IM1	Sunny	Moderate	08:27	6.7	Middle	3.4	0.2	358	26.5	26.5	8.1	8.1	30.4	30.4	92.3 92.4	92.4	6.3		5.0	6.0	9	9	818327	806460
						3.4 5.7	0.2	351 31	26.5		8.1								5.0 6.4	ł	8			
					Bottom	5.7	0.2	23	26.4 26.4	26.4	8.0	8.0	30.9	30.9	91.4	91.4	6.2	6.2	6.4	ł	8			
-						1.0	0.2	354	26.4		8.1		30.9		91.4		6.2		4.1		8			
					Surface	1.0	0.2	352	26.4	26.4	8.1	8.1	30.8	30.8	91.6	91.6	6.2		4.1	ł	9			
						3.6	0.2	351	26.3		8.1		31.0		90.2		6.1	6.2	3.8	ł	6			
IM2	Sunny	Moderate	08:42	7.1	Middle	3.6	0.2	345	26.3	26.3	8.1	8.1	31.0	31.0	90.2	90.2	6.1		3.9	4.4	8	8	819169	806250
						6.1	0.2	342	26.3		8.1		31.3		90.2		6.1		5.2	ł	7			
					Bottom	6.1	0.2	334	26.3	26.3	8.1	8.1	31.3	31.3	90.3	90.3	6.1	6.1	5.2	i	7			
						1.0	0.2	3	26.6		8.1		30.5		92.9		6.3		5.2		8			
					Surface	1.0	0.2	7	26.6	26.6	8.1	8.1	30.5	30.5	92.7	92.8	6.3		5.2	1	8			
						3.9	0.2	5	26.3		8.0		31.2		89.7		6.1	6.2	6.7	١	8			
IM7	Sunny	Moderate	09:11	7.7	Middle	3.9	0.3	2	26.3	26.3	8.0	8.0	31.2	31.2	89.7	89.7	6.1		6.9	7.1	8	8	821343	806851
					Datton	6.7	0.2	339	26.3	26.3	8.0	0.0	31.3	24.2	89.4	00.5	6.1	C 4	9.3	1	9			
					Bottom	6.7	0.2	334	26.3	26.3	8.0	8.0	31.3	31.3	89.5	89.5	6.1	6.1	9.3	1	8			
DA Destile Asses			•		•		•								•					•	•		•	•

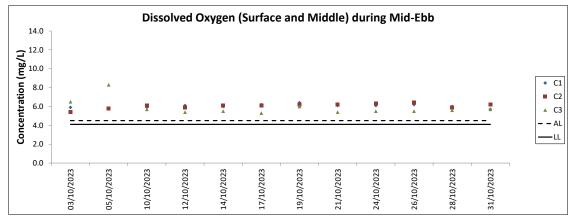
DA: Depth-Averaged

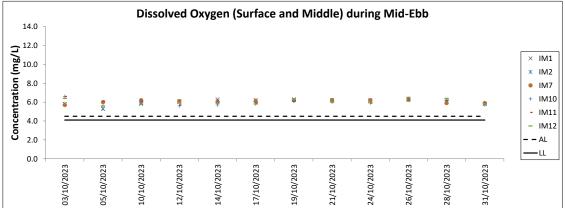
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher

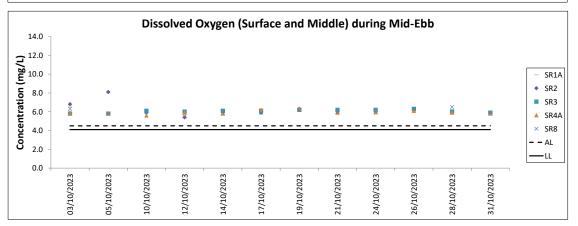
Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

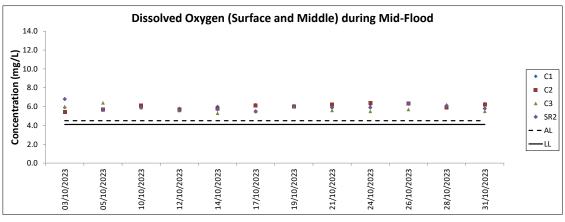
Water Quality Monitoring Results on 31 October 23 during Mid-Flood Tide

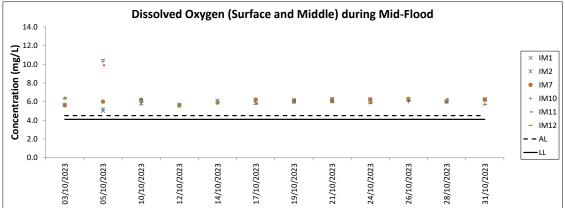
Water Quar	ity wont	oring Resu	its oii		31 October 23	auring Mia-		ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salini	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depi	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curfosa	1.0	0.5	302	26.0	20.0	8.1	0.4	28.4	28.4	82.6	00.0	5.7		6.7		9			
					Surface	1.0	0.5	298	26.0	26.0	8.1	8.1	28.4	28.4	82.6	82.6	5.7		7.1		9			
IM10	0	Madanata	00.47	0.0	Middle	4.2	0.5	297	25.9	05.0	8.1	0.4	28.4	00.4	82.7	82.7	5.7	5.7	9.8		8		000040	000005
IIVITO	Sunny	Moderate	09:17	8.3	Middle	4.2	0.5	296	25.9	25.9	8.1	8.1	28.4	28.4	82.7	82.7	5.7		9.7	8.8	9	9	822240	809825
					Dattana	7.3	0.4	315	25.9	25.9	8.1	0.4	28.4	28.4	83.2	83.3	5.8	5.8	9.7	1	8			
					Bottom	7.3	0.4	310	25.9	25.9	8.1	8.1	28.4	28.4	83.3	83.3	5.8	5.8	9.6		8			
					Surface	1.0	0.6	274	26.1	26.1	8.1	8.1	28.5	28.5	83.1	83.1	5.7		3.4		9			
					Surface	1.0	0.5	273	26.1	20.1	8.1	0.1	28.5	28.5	83.1	83.1	5.7	5.7	3.5	1	8			
IM11	Cuppy	Madarata	00:10	0.0	Middle	4.1	0.5	293	26.0	26.0	8.1	0.1	28.5	20 E	82.6	82.7	5.7	5.7	4.6	4.6	8	8	921404	810534
IIVI I I	Sunny	Moderate	09:10	8.2	Middle	4.1	0.5	300	25.9	26.0	8.1	8.1	28.5	28.5	82.7	82.7	5.7		4.7	4.6	8	8	821494	810534
					Dattana	7.2	0.5	274	25.9	25.0	8.1	0.4	28.5	20.5	83.1	02.0	5.7	- 0	5.5	1	8			
					Bottom	7.2	0.6	273	25.9	25.9	8.1	8.1	28.5	28.5	83.2	83.2	5.8	5.8	5.7	1	8			
					0	1.0	0.5	286	26.0	00.0	8.1	0.4	28.5	00.5	82.8	00.0	5.7		3.7		8			
					Surface	1.0	0.6	292	26.0	26.0	8.1	8.1	28.5	28.5	82.8	82.8	5.7		3.8	1	7			
11.440	0	Mandamata	00.00	0.0	NAC-1-III-	4.0	0.5	283	26.0	00.0	8.1	0.4	28.5	00.5	82.8	00.0	5.7	5.7	4.1	4.0	8		004474	044507
IM12	Sunny	Moderate	09:06	8.0	Middle	4.0	0.6	275	26.0	26.0	8.1	8.1	28.5	28.5	82.8	82.8	5.7		4.1	4.2	7	8	821174	811507
					5.4	7.0	0.5	266	26.0		8.1		28.5		82.9		5.7		4.9	1	10			
					Bottom	7.0	0.5	266	26.0	26.0	8.1	8.1	28.5	28.5	83.0	83.0	5.7	5.7	4.9	1	10			
						1.0	0.0	207	26.0		8.1	i	28.5		82.3		5.7		3.7		7			
					Surface	1.0	0.0	203	26.0	26.0	8.1	8.1	28.6	28.5	82.2	82.3	5.7		3.7	Ī	6			
0044				= 0		2.8	0.0	195	-		-		-		-		-	5.7	-			_	0.400=0	0400==
SR1A	Sunny	Moderate	08:37	5.6	Middle	2.8	0.0	188	-	-	-	1 -	-	-	-	-	-		-	3.9	-	7	819972	812655
						4.6	0.0	213	25.9		8.1		28.6		82.5		5.7		4.1	Ī	6			
					Bottom	4.6	0.0	218	25.9	25.9	8.1	8.1	28.6	28.6	82.7	82.6	5.7	5.7	4.2	1	7			
					0.7	1.0	0.1	255	26.0		8.1		28.5		84.5	0.4.5	5.8		6.4		7			
					Surface	1.0	0.1	247	26.0	26.0	8.1	8.1	28.5	28.5	84.5	84.5	5.8		7.3	Ī	7			
000						-	0.1	241	-		-		-		-		-	5.8	-	٠.	-	_		044400
SR2	Sunny	Moderate	08:22	4.9	Middle	-	0.1	238	-	-	-	1 -	-	-	-	- 1	-		-	9.1	-	7	821439	814180
					5.4	3.9	0.2	225	26.0		8.1		28.5		85.4		5.9		11.7	1	8			
					Bottom	3.9	0.2	228	26.0	26.0	8.1	8.1	28.5	28.5	85.5	85.5	5.9	5.9	11.2	Ī	7			
			i		0 (1.0	0.4	343	26.7		8.1		30.4		93.7		6.3		2.6		8			
					Surface	1.0	0.4	338	26.7	26.7	8.1	8.1	30.4	30.4	93.7	93.7	6.3		2.7		9			
000						4.1	0.4	351	26.4		8.1		31.1		90.0		6.1	6.2	4.3	1	9			
SR3	Sunny	Moderate	09:23	8.2	Middle	4.1	0.3	355	26.4	26.4	8.1	8.1	31.1	31.1	89.9	90.0	6.1		4.3	4.1	10	9	822144	807567
					D-11	7.2	0.4	340	26.4	00.4	8.0	0.0	31.3	04.0	89.2	00.0	6.0	0.0	5.3	1	10			
					Bottom	7.2	0.4	334	26.4	26.4	8.0	8.0	31.3	31.3	89.2	89.2	6.0	6.0	5.3	1	10			
						1.0	0.0	230	26.5		8.1	Ì	30.8		91.2	04.0	6.2		5.8	Ì	7			
					Surface	1.0	0.0	233	26.5	26.5	8.1	8.1	30.8	30.8	91.1	91.2	6.2		5.9	1	8			
05.44						4.5	0.0	211	26.5		8.1	.	30.9		90.8		6.1	6.2	6.6	1	8		0.1701	007045
SR4A	Sunny	Moderate	07:35	8.9	Middle	4.5	0.0	206	26.5	26.5	8.1	8.1	30.9	30.9	90.8	90.8	6.1		6.7	6.7	7	8	817211	807810
					D	7.9	0.1	234	26.5	06 -	8.1		30.9	00.0	90.8	00.0	6.1	0.1	7.7	1	9			
					Bottom	7.9	0.0	234	26.5	26.5	8.1	8.1	30.9	30.9	90.8	90.8	6.1	6.1	7.8	1	8			
					0	1.0	-	-	26.0	00.0	8.1	0.4	28.5	00.5	83.4	00.4	5.8		3.2	Ì	7			
					Surface	1.0	-	-	26.0	26.0	8.1	8.1	28.5	28.5	83.3	83.4	5.8		3.3	1	8			
000	0	Madazi	00.50	5.0	NAC-L-III-	-	-	-	-		-		- 1		-		-	5.8	-	1	-	_	000405	044005
SR8	Sunny	Moderate	08:59	5.8	Middle	-	-	-	-	-	-	1 -	-	-	-	† -	-		-	4.5	-	7	820405	811625
ĺ					D-11	4.8	-	-	25.9	05.0	8.1	0.4	28.5	00.5	83.6	00.7	5.8		5.6	1	6			
					Bottom	4.8	-	-	25.9	25.9	8.1	8.1	28.5	28.5	83.7	83.7	5.8	5.8	5.8	1	6			
										•														

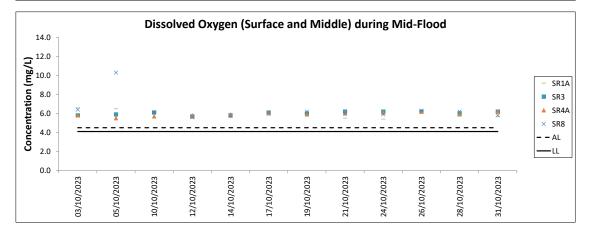


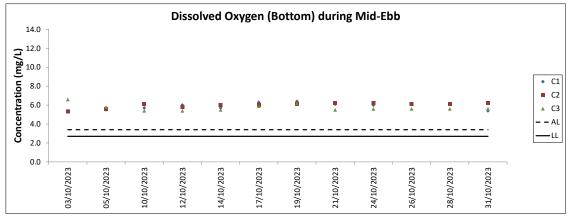


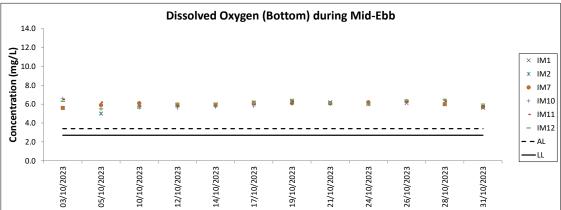


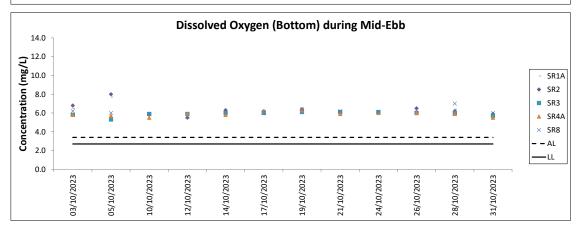


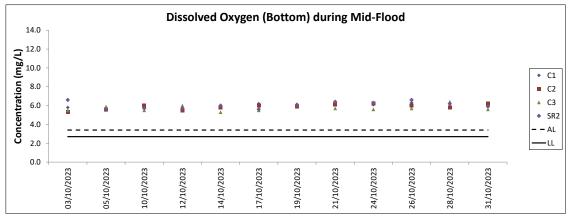


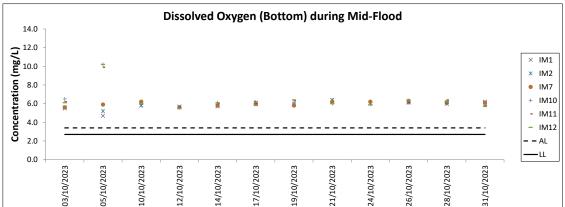


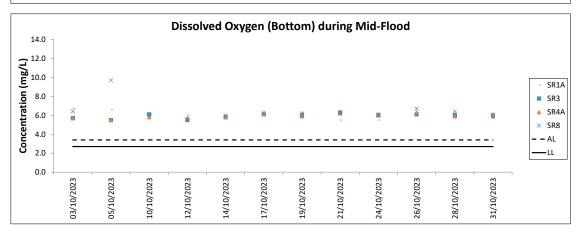


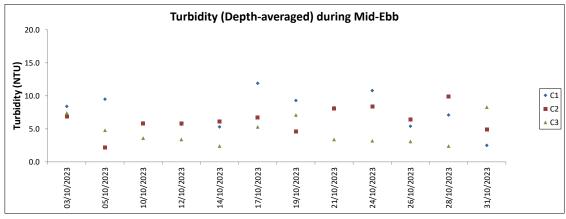


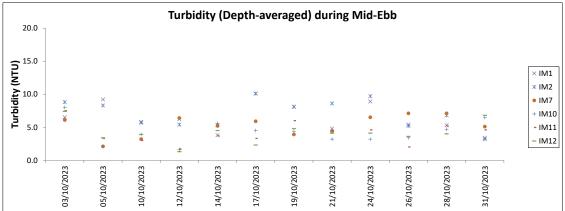


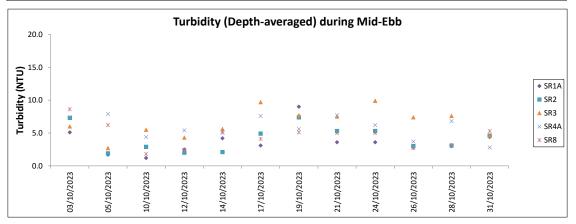


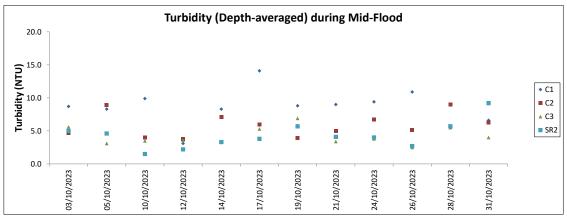


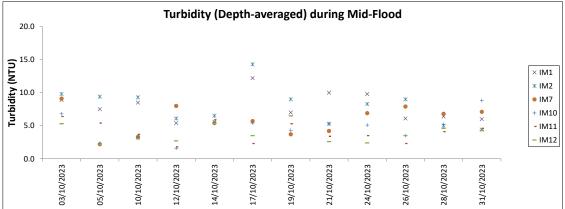


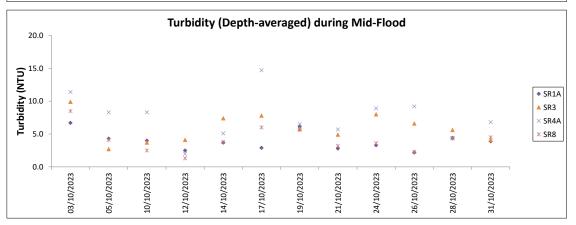


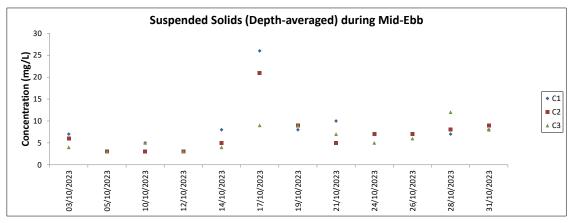


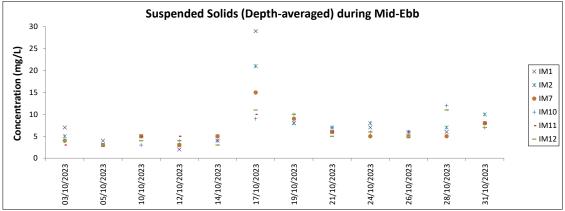


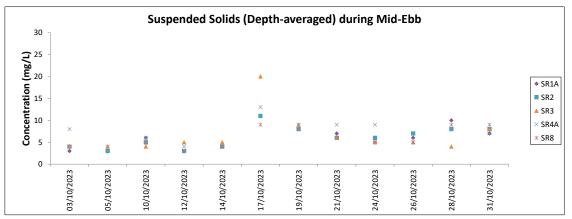


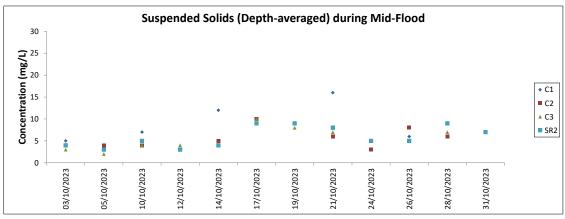


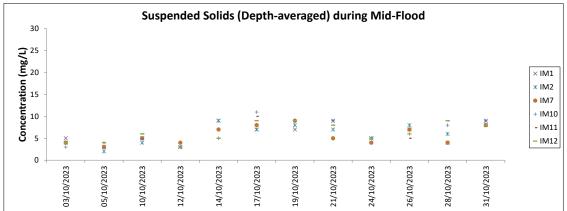


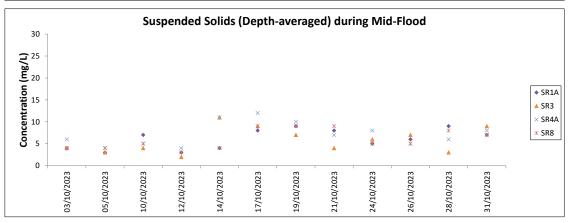












The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Mott MacDonald Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 94 (For October 2023)
Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
02-Aug-23	SWL	2	35.924	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	3	14.605	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	2	13.071	SUMMER	32166	3RS ET	S
02-Aug-23	SWL	3	2.370	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	2	50.260	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	3	3.500	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	2	14.140	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	3	1.100	SUMMER	32166	3RS ET	S
08-Aug-23	AW	2	4.770	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	5.650	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	3	13.958	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	3.236	SUMMER	32166	3RS ET	S
08-Aug-23	WL	3	6.443	SUMMER	32166	3RS ET	S
09-Aug-23	NWL	1	3.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	2	58.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	3	2.100	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	1	12.2	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	2	19.31	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	3	17.6	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	2	8.19	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	3	1.8	SUMMER	32166	3RS ET	S
17-Aug-23	NEL	2	37.41	SUMMER	32166	3RS ET	Р
17-Aug-23	NEL	2	9.99	SUMMER	32166	3RS ET	S
22-Aug-23	NWL	2	63.5	SUMMER	32166	3RS ET	Р
22-Aug-23	NWL	2	12.2	SUMMER	32166	3RS ET	S
24-Aug-23	AW	2	4.8	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	13.49	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	3	6.15	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	6.47	SUMMER	32166	3RS ET	S
24-Aug-23	WL	3	3.42	SUMMER	32166	3RS ET	S
06-Sep-23	NEL	1	2.34	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	2	34.54	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	1	0.67	AUTUMN	32166	3RS ET	S
06-Sep-23	NEL	2	9.25	AUTUMN	32166	3RS ET	S
13-Sep-23	SWL	3	55.03	AUTUMN	32166	3RS ET	Р
13-Sep-23	SWL	3	14.57	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	2	13.6	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	3	23.82	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	2	5.98	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	3	4.2	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	2	17.1	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	3	36.7	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	2	2.74	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	3	13	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	1	9.19	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	2	7.4	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	3	1.904	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	1	4.95	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	2	4.11	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	3	2.186	AUTUMN	32166	3RS ET	S
20-Sep-23	AW	1	4.63	AUTUMN	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
21-Sep-23	AW	2	4.56	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	1	3.93	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	12.869	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	11.546	AUTUMN	32166	3RS ET	S
22-Sep-23	NWL	2	63.9	AUTUMN	32166	3RS ET	Р
22-Sep-23	NWL	2	12	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	2	1.62	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	43.48	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	4	18.2	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	8.9	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	4	3.2	AUTUMN	32166	3RS ET	S
06-Oct-23	NEL	2	26.24	AUTUMN	32166	3RS ET	Р
06-Oct-23	NEL	3	10.33	AUTUMN	32166	3RS ET	Р
06-Oct-23	NEL	4	0.77	AUTUMN	32166	3RS ET	Р
06-Oct-23	NEL	2	6.37	AUTUMN	32166	3RS ET	S
06-Oct-23	NEL	3	4.39	AUTUMN	32166	3RS ET	S
12-Oct-23	NWL	2	11.4	AUTUMN	32166	3RS ET	Р
12-Oct-23	NWL	3	52.8	AUTUMN	32166	3RS ET	Р
12-Oct-23	NWL	2	4.3	AUTUMN	32166	3RS ET	S
12-Oct-23	NWL	3	7.3	AUTUMN	32166	3RS ET	S
13-Oct-23	AW	2	1.7	AUTUMN	32166	3RS ET	Р
13-Oct-23	AW	3	3.03	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	2	11.126	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	3	7.776	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	2	4.944	AUTUMN	32166	3RS ET	S
13-Oct-23	WL	3	5.384	AUTUMN	32166	3RS ET	S
16-Oct-23	NWL	3	63.8	AUTUMN	32166	3RS ET	Р
16-Oct-23	NWL	3	11.8	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	2	1.7	AUTUMN	32166	3RS ET	Р
17-Oct-23	NEL	3	33.64	AUTUMN	32166	3RS ET	Р
17-Oct-23	NEL	2	4.5	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	3	7.26	AUTUMN	32166	3RS ET	S
20-Oct-23	AW	3	4.52	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	2	4.763	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	3	15.33	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	2	2.967	AUTUMN	32166	3RS ET	S
20-Oct-23	WL	3	7.67	AUTUMN	32166	3RS ET	S
26-Oct-23	SWL	3	53.33	AUTUMN	32166	3RS ET	Р
26-Oct-23	SWL	4	1.1	AUTUMN	32166	3RS ET	Р
26-Oct-23	SWL	3	14.97	AUTUMN	32166	3RS ET	S
26-Oct-23	SWL	4	0.9	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	2	8.81	AUTUMN	32166	3RS ET	Р
27-Oct-23	SWL	3	45.261	AUTUMN	32166	3RS ET	Р
27-Oct-23	SWL	2	3.59	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	3	12.389	AUTUMN	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months are presented for reference only.

CWD Small Vessel Line-transect Survey

Sighting Data

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
02-Aug-23	1	1023	CWD	1	SWL	2	477	ON	3RS ET	22.2085	113.93618	SUMMER	NONE	Р
02-Aug-23	2	1202	FP	11	SWL	2	94	ON	3RS ET	22.1441	113.91764	SUMMER	NONE	Р
02-Aug-23	3	1346	CWD	1	SWL	3	102	ON	3RS ET	22.2000	113.88808	SUMMER	NONE	Р
02-Aug-23	4	1416	CWD	4	SWL	3	171	ON	3RS ET	22.1882	113.87865	SUMMER	NONE	Р
02-Aug-23	5	1444	CWD	1	SWL	3	247	ON	3RS ET	22.1624	113.86891	SUMMER	NONE	Р
02-Aug-23	6	1458	CWD	8	SWL	3	523	ON	3RS ET	22.1687	113.86881	SUMMER	NONE	Р
02-Aug-23	7	1529	CWD	1	SWL	2	294	ON	3RS ET	22.1982	113.86840	SUMMER	PURSE SEINER	Р
02-Aug-23	8	1549	CWD	3	SWL	2	225	ON	3RS ET	22.1934	113.85866	SUMMER	NONE	Р
02-Aug-23	9	1605	CWD	2	SWL	2	202	ON	3RS ET	22.1849	113.85912	SUMMER	NONE	Р
02-Aug-23	10	1630	CWD	8	SWL	2	272	ON	3RS ET	22.1906	113.84947	SUMMER	NONE	Р
03-Aug-23	1	1152	FP	2	SWL	2	157	ON	3RS ET	22.1564	113.91727	SUMMER	NONE	Р
03-Aug-23	2	1310	FP	3	SWL	2	208	ON	3RS ET	22.1495	113.89398	SUMMER	NONE	S
03-Aug-23	3	1352	CWD	4	SWL	2	346	ON	3RS ET	22.1949	113.87848	SUMMER	NONE	Р
03-Aug-23	4	1523	CWD	5	SWL	3	343	ON	3RS ET	22.1889	113.85077	SUMMER	PURSE SEINER	Р
08-Aug-23	1	1111	CWD	1	WL	2	108	ON	3RS ET	22.2234	113.83013	SUMMER	NONE	Р
08-Aug-23	2	1131	CWD	2	WL	3	53	ON	3RS ET	22.2147	113.82890	SUMMER	NONE	Р
08-Aug-23	3	1155	CWD	3	WL	2	473	ON	3RS ET	22.2055	113.82426	SUMMER	NONE	Р
08-Aug-23	4	1213	CWD	3	WL	2	15	ON	3RS ET	22.2017	113.82381	SUMMER	NONE	S
08-Aug-23	5	1226	CWD	4	WL	3	23	ON	3RS ET	22.1974	113.82694	SUMMER	NONE	S
08-Aug-23	6	1256	CWD	6	WL	3	537	ON	3RS ET	22.1876	113.83260	SUMMER	NONE	Р
24-Aug-23	1	1118	CWD	2	WL	3	108	ON	3RS ET	22.2176	113.81963	SUMMER	NONE	S
24-Aug-23	2	1147	CWD	2	WL	3	204	ON	3RS ET	22.2056	113.82862	SUMMER	NONE	Р
13-Sep-23	1	1227	CWD	6	SWL	3	19	ON	3RS ET	22.188770	113.90627	AUTUMN	NONE	Р
18-Sep-23	1	1029	FP	2	SWL	2	365	ON	3RS ET	22.197349	113.93566	AUTUMN	NONE	Р
18-Sep-23	2	1037	FP	3	SWL	2	55	ON	3RS ET	22.184478	113.93564	AUTUMN	NONE	Р
18-Sep-23	3	1053	FP	6	SWL	2	198	ON	3RS ET	22.153702	113.93678	AUTUMN	NONE	Р
20-Sep-23	1	1030	CWD	2	WL	1	234	ON	3RS ET	22.261023	113.85093	AUTUMN	NONE	Р
20-Sep-23	2	1042	CWD	2	WL	1	265	ON	3RS ET	22.260349	113.84229	AUTUMN	NONE	Р
20-Sep-23	3	1112	CWD	1	WL	1	290	ON	3RS ET	22.241103	113.84425	AUTUMN	NONE	Р
20-Sep-23	4	1124	CWD	1	WL	1	236	ON	3RS ET	22.241593	113.83484	AUTUMN	NONE	Р
21-Sep-23	1	1034	CWD	3	WL	2	138	ON	3RS ET	22.261205	113.84683	AUTUMN	NONE	Р
21-Sep-23	2	1122	CWD	3	WL	2	297	ON	3RS ET	22.223088	113.83525	AUTUMN	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
21-Sep-23	3	1156	CWD	6	WL	2	77	ON	3RS ET	22.214777	113.82498	AUTUMN	NONE	Р
21-Sep-23	4	1223	CWD	1	WL	2	163	ON	3RS ET	22.206057	113.82903	AUTUMN	NONE	Р
21-Sep-23	5	1231	CWD	2	WL	2	41	ON	3RS ET	22.205669	113.82487	AUTUMN	NONE	Р
21-Sep-23	6	1247	CWD	1	WL	2	22	ON	3RS ET	22.196451	113.83561	AUTUMN	NONE	Р
21-Sep-23	7	1254	CWD	3	WL	2	913	ON	3RS ET	22.193651	113.84263	AUTUMN	NONE	S
21-Sep-23	8	1319	CWD	1	WL	2	634	ON	3RS ET	22.187905	113.83346	AUTUMN	NONE	Р
13-Oct-23	1	1028	CWD	2	WL	2	243	ON	3RS ET	22.260779	113.853468	AUTUMN	NONE	S
13-Oct-23	2	1043	CWD	2	WL	2	34	ON	3RS ET	22.260956	113.840829	AUTUMN	NONE	Р
13-Oct-23	3	1058	CWD	1	WL	3	91	ON	3RS ET	22.250437	113.841275	AUTUMN	GILLNETTER	Р
13-Oct-23	4	1117	CWD	9	WL	2	126	ON	3RS ET	22.241167	113.841706	AUTUMN	NONE	Р
13-Oct-23	5	1149	CWD	3	WL	2	139	ON	3RS ET	22.241672	113.829845	AUTUMN	NONE	Р
20-Oct-23	1	1149	CWD	2	WL	2	15	ON	3RS ET	22.196308	113.834539	AUTUMN	NONE	Р
27-Oct-23	1	1202	FP	2	SWL	3	45	ON	3RS ET	22.151171	113.908504	AUTUMN	NONE	Р
27-Oct-23	2	1216	CWD	1	SWL	2	128	ON	3RS ET	22.168029	113.906685	AUTUMN	NONE	S

Abbreviations: STG# = Sighting Number; GP SZ = Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months are presented for reference only. No relevant figure or text will be mentioned in this monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

Calculation of the encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 453.39 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 7 on-effort sightings and total number of 20 dolphins from oneffort sightings were collected under such condition. Calculation of the encounter rates in October 2023 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in October 2023

$$STG = \frac{7}{453.39} \times 100 = 1.54$$

Encounter Rate by Number of Dolphins (ANI) in October 2023

$$ANI = \frac{20}{453.39} \times 100 = 4.41$$

Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 1333.16 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 39 on-effort sightings and total number of 113 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)

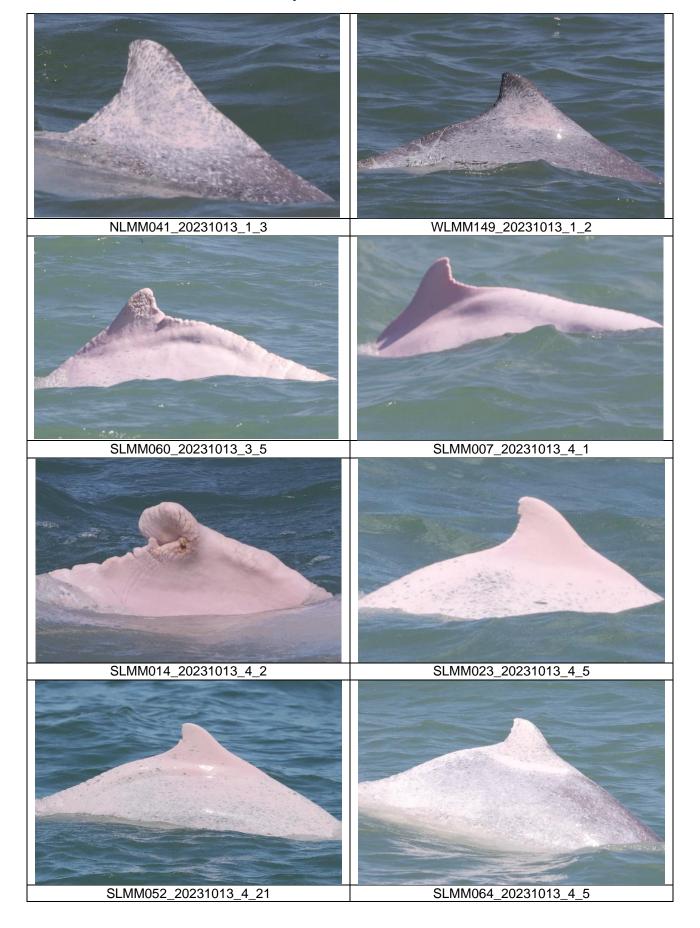
$$STG = \frac{39}{1333.16} \times 100 = 2.93$$

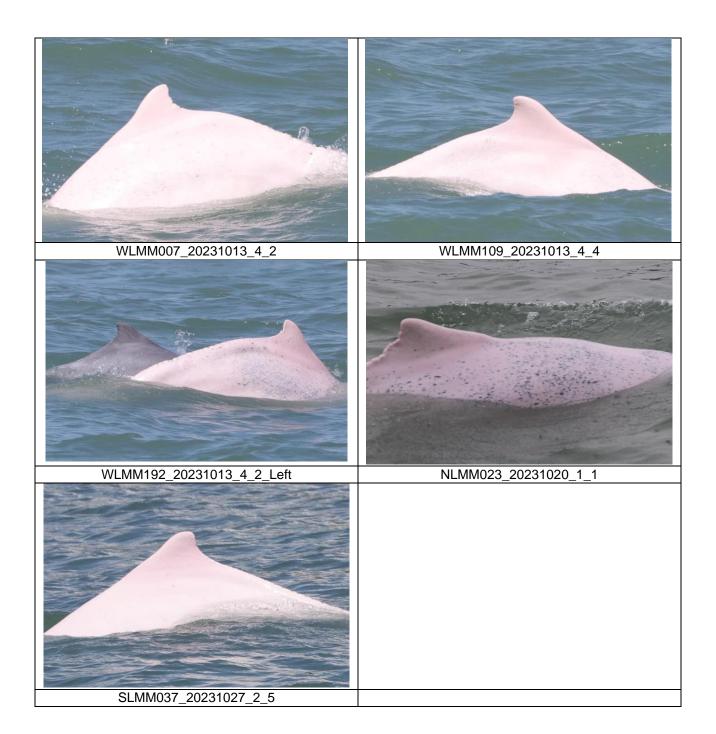
 $\frac{\text{Running Quarterly Encounter Rate by Number of Dolphins (ANI)}}{ANI = \frac{113}{1333.16} \, \times \, 100 = 8.48}$

$$ANI = \frac{113}{133316} \times 100 = 8.48$$

CWD Small Vessel Line-transect Survey

Photo Identification





CWD Land-based Theodolite Tracking Survey

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
05/Oct/23	Lung Kwu Chau	8:54	14:54	6:00	3	1	0	0
11/Oct/23	Sha Chau	10:44	16:44	6:00	2	1	0	0

Visibility: 1=Excellent, 2=Good, 3=Fair, 4=Poor

Appendix E. Calibration Certificates

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT : NICK SIN WORK ORDER

HK2335498

CLIENT

: MOTT MACDONALD HONG KONG

ADDRESS

PROJECT

: 3/F, MANULIFE PLACE, 348 KWUN TONG ROAD KWUN TONG, KOWLOON, HONG

SUB-BATCH

DATE RECEIVED : 6-SEP-2023

KONG

LIMITED

DATE OF ISSUE : 18-SEP-2023

: CALIBIRATION/PERFORMANCE CHECK OF

NO. OF SAMPLES: 1

DUST METER

CLIENT ORDER

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Cailbration was subcontracted to and analysed by Action-United Environmental Services & Consulting (AUES).

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories

Richard Fung

Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

: HK2335498 WORK ORDER

SUB-BATCH

CLIENT

: 1 : MOTT MACDONALD HONG KONG LIMITED : CALIBIRATION/PERFORMANCE CHECK OF DUST METER PROJECT



ALS Lab	Client's Sample ID	Sample	Sample Date	External Lab Report No.
ID		Туре		
HK2335498-001	S/N:296098	Equipments	06-Sep-2023	S/N:296098

 $\mathsf{Page}: 2 \text{ of } 2$

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 296098

Equipment Ref: Nil

Job Order HK2335498

Standard Equipment:

Standard Equipment: Higher Volume Sampler

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 11 September 2023

Equipment Verification Results:

Testing Date: 14 & 15 September 2023

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in µg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr02min	09:20 ~ 11:22	26.9	1007.7	29.3	1149	9.4
2hr01min	11:27 ~ 13:28	26.9	1007.7	40.9	1403	11.6
2hr00min	09:15 ~ 11:15	27.3	1009.5	26.2	1062	8.9
2hr07min	11:20 ~ 13:27	27.3	1009.5	21.7	940	7.4
2hr02min	13:36 ~ 15:38	27.3	1009.5	56.6	1746	14.3

Linear Regression of Y or X

Slope (K-factor): <u>3.8368 (μg/m3)/CPM</u>

Correlation Coefficient 0.9775

Date of Issue <u>18 September 2023</u>

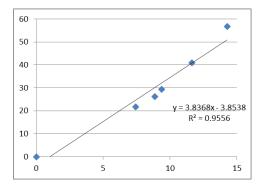
Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 3.8368 (µg/m3)/CPM should be applied for TSP

monitoring

*If R<0.5, repair or re-verification is required for the equipment



Operator : _____ Fai So Signature : _____ Date : ____18 September 2023

QC Reviewer : Ben Tam Signature : Date : 18 September 2023

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 11-Sep-23

Location ID: Calibration Room - TISCH Higher Volume Sampler (Model Next Calibration Date: 10-Dec-23

TE-5170) S/N:1260

CONDITIONS

Sea Level Pressure (hPa)1007.3Corrected Pressure (mm Hg)755.475Temperature (°C)26.5Temperature (K)300

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.10977
Model-> 5025A		Qstd Intercept ->	-0.03782
Calibration Date->	15-Dec-22	Expiry Date->	15-Dec-23

CALIBRATION

Plate	H20 (L)	H2O (R)	H20	Qstd	Ι	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	5.9	5.9	11.8	1.637	53	52.71	Slope = 32.7794
13	4.6	4.6	9.2	1.448	46	45.75	Intercept = -0.7928
10	3.5	3.5	7.0	1.265	42	41.77	Corr. coeff. = 0.9963
8	2.6	2.6	5.2	1.093	36	35.80	
5	1.4	1.4	2.8	0.807	25	24.86	

Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

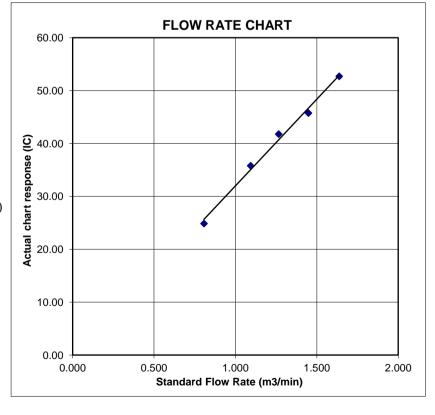
m = sampler slope

b = sampler intercept

I = chart response

Tay = daily average temperature

Pav = daily average pressure





RECALIBRATION DUE DATE:

December 15, 2023

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 15, 2022

Rootsmeter S/N: 438320

Ta: 295

Pa: 748.0

°K mm Hg

Operator: Jim Tisch
Calibration Model #:

TE-5025A

Calibrator S/N: 4064

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4430	3.2	2.00
2	3	4	1	1.0210	6.4	4.00
3	5	6	1	0.9170	7.9	5.00
4	7	8	1	0.8730	8.8	5.50
5	9	10	1	0.7210	12.8	8.00

-	Data Tabulation							
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H (Ta/Pa)}$			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)			
0.9900	0.6861	1.4101	0.9957	0.6900	0.8881			
0.9858	0.9655	1.9943	0.9914	0.9711	1.2560			
0.9838	1.0728	2.2296	0.9894	1.0790	1.4042			
0.9826	1.1255	2.3385	0.9882	1.1320	1.4728			
0.9772	1.3554	2.8203	0.9829	1.3632	1.7762			
	m=	2.10977		m=	1.32110			
QSTD	b=	-0.03782	QA	b=	-0.02382			
	r=	0.99998		r=	0.99998			

Calculations							
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)				
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime				
	For subsequent flow rate calculations:						
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$				

Standard Conditions						
Tstd:	298.15 °K					
Pstd:	760 mm Hg					
	Key	-				
ΔH: calibrate	or manometer reading (in H2O)					
ΔP: rootsme	ter manometer reading (mm Hg)					
	osolute temperature (°K)					
Pa: actual barometric pressure (mm Hg)						
b: intercept						
m: slope						

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Appendix F. Status of Environmental Permits and Licenses

	Description	Permit/ Reference No.	Status
EIAO	Environmental Permit	EP-489/2014	Approved on 7 Nov 2014

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	Registration as Chemical Waste	Site office of 3206	WPN 5213-951- Z4035-01	Completion of Registration on 18 Nov 2016
	Producer	Works area of 3206	WPN 5213-951- Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0347-23	Valid from 3 May 2023 to 1 Nov 2023
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3302	Notification of Construction Work under APCO	Works area of 3302	490404	Receipt acknowledged by EPD on 10 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331- 01	Completion of Registration on 4 Jan 2019
	Discharge License under WPCO	Works area of 3302	WT00034539- 2019	Valid from 11 Mar 2020 to 31 Mar 2025
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit (General Works)	Works area of 3302	GW-RS0301-23	Valid from 20 Apr 2023 to 19 Oct 2023
	(Concidi Works)	Works area of 3302	GW-RS0876-23	Valid from 20 Oct 2023 to 19 Apr 2024
3305	Notification of Construction Work under APCO	Works area of 3305	460857	Receipt acknowledged by EPD on 12 Oct 2020
	Registration as Chemical Waste Producer	Works area of 3305	5213-951-A3024- 01	Completion of Registration on 13 Nov 2020
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oct 2019
	Construction Noise Permit (General Works)	Works area of 3305	GW-RS0423-23	Valid from 1 Jun 2023 to 30 Nov 2023
3306	Registration as Chemical Waste Producer	Works area of 3306	8335-951-C4434- 01	Completion of Registration on 1 Apr 2020
	Bill Account for disposal	Works area of 3306	A/C 7035868	Approval granted from EPD on 27 Nov 2019
3307	Registration as Chemical Waste Producer	Works area of 3307	5211-951-P3379- 01	Completion of Registration on 8 Jun 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 Nov 2020
3310	Notification of Construction Work under APCO	Works area of 3310	485057	Receipt acknowledged by EPD on 6 Oct 2022
	Registration as Chemical Waste Producer	Works area of 3310	5213-951-C4682- 01	Completion of Registration on 21 Dec 2021
	rioducei	Works area of 3310	5213-000-C3317- 27	Completion of Registration on 31 Aug 2022
	Discharge License under WPCO	Works area of 3310	WT00039654- 2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jan 2022
	Construction Noise Permit (General Works)	Works area of 3310 (Existing airport)	GW-RS0421-23	Valid from 24 May 2023 to 21 Nov 2023
		Works area of 3310 (Reclamation area)	GW-RS0502-23	Valid from 19 Jun 2023 to 15 Dec 2023
		Tsing Chau Wan	GW-RW0340-23	Valid from 26 May 2023 to 25 Nov 2023
3402	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 11 Jan 2019
3403	Notification of Construction Work under APCO	Works area of 3403	485039	Receipt acknowledged by EPD on 06 Oct 2022
		Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3403	5213-951-S4218- 01	Completion of Registration on 9 Jan 2020
	Discharge License under WPCO	Works area of 3403	WT00035841- 2020	Valid from 5 Jun 2020 to 30 Jun 2025 Approved variation on 9 Jun 2022
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0694-23	Valid from 1 Sep 2023 to 29 Feb 2024
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
3405	Notification of Construction Work under APCO	Works area of 3405	484926	Receipt acknowledged by EPD on 30 Sep 2022
	Registration as Chemical Waste	Works area of 3405	WPN 5218-951- C4431-01	Completion of Registration on 12 Mar 2020
	Producer			Revised license was issued on 14 Jul 202

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3405	GW-RS0438-23	Valid from 1 Jun 2023 to 29 Nov 2023
3408	Notification of Construction	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
	Work under APCO	3408 CSA-CBP	488443	Receipt acknowledged by EPD on 13 Jan 2023
	Specified Process Licence (Cement Works)	3408 CSA-CBP	L-3-268(1)	Valid from 22 May 2023 to 21 May 2025
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Jul 2021
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 10 Jul 2023 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of	GW-RS0870-23	Valid from 13 Oct 2023 to 1 Apr 2024
		3408	GW-RS0627-23	Valid from 31 Jul 2023 to 13 Oct 2023 (Superseded by GW-RS0870-23)
	Construction	Works area of	GW-RS0850-23	Valid from 17 Oct 2023 to 16 Mar 2024
	Noise Permit (Special Case)	3408	GW-RS0332-23	Valid from 23 Apr 2023 to 16 Oct 2023 (Superseded by GW-RS0850-23)
3508	Notification of Construction Work under APCO	Works area of 3508	459017	Receipt acknowledged by EPD on 27 Aug 2020
			459469	Receipt acknowledged by EPD on 4 Sep 2020
			493055	Receipt acknowledged by EPD on 30 May 2023
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under WPCO	Works area of 3508	WT00037209- 2020	Valid from 11 Mar 2021 to 31 Mar 2026
			WT00037523- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037225- 2020	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037549- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020
	Construction Noise Permit	Works area of 3508	GW-RS0513-23	Valid from 28 Jun 2023 to 27 Dec 2023
	(General Works)	Works area of 3508	GW-RS0437-23	Valid from 6 Jun 2023 to 5 Dec 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
		Works area of 3508	GW-RS0794-23	Valid from 22 Sep 2023 to 21 Mar 2024
		Works area of 3508	GW-RS0834-23	Valid from 30 Sep 2023 to 27 Mar 2024
	Construction Noise Permit	Works area of 3508	GW-RS0535-23	Valid from 16 Jul 2023 to 30 Nov 2023
	(Special Case)	Works area of 3508	GW-RS0361-23	Valid from 11 May 2023 to 17 Oct 2023 (Superseded by GW-RS0879-23)
		Works area of 3508	GW-RS0534-23	Valid from 1 Jul 2023 to 30 Nov 2023
		Works area of 3508	GW-RS0603-23	Valid from 23 Jul 2023 to 1 Oct 2023
		Works area of 3508	GW-RS0373-23	Valid from 14 May 2023 to 17 Oct 2023 (Superseded by GW-RS0881-23)
		Works area of 3508	GW-RS0635-23	Valid from 4 Aug 2023 to 31 Jan 2024
		Works area of 3508	GW-RS0770-23	Valid from 10 Sep 2023 to 31 Dec 2023
		Works area of 3508	GW-RS0739-23	Valid from 1 Sep 2023 to 30 Nov 2023
		Works area of 3508	GW-RS0881-23	Valid from 18 Oct 2023 to 31 Mar 2023
		Works area of 3508	GW-RS0879-23	Valid from 18 Oct 2023 to 31 Mar 2023
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951- C4421-01	Completion of Registration on 9 Jan 2020
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS0356-23	Valid from 8 May 2023 to 7 Nov 2023
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste Producer	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 2017
		Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Registration as Chemical Waste Producer	Site office of 3603	5296-951-S4069- 01	Completion of Registration on 22 Jan 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0357-23	Valid from 23 May 2023 to 22 Nov 2023
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019
	Bill Account for disposal	Works area of 3721	A/C 7035234	Approval granted from EPD on 25 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3721	GW-RS0491-23	Valid from 19 Jun 2023 to 15 Dec 2023
3728	Registration as Chemical Waste Producer	Works area of 3728	WPN 5113-951- S4481-01	Completion of Registration on 20 October 2023
	Discharge License under WPCO	Works area of 3728	WT00037809- 2021	Valid from 27 Jul 2021 to 31 Jul 2026
	Bill Account for disposal	Works area of 3728	A/C 7039409	Approval granted from EPD on 22 Jan 2021
3733	Notification of Construction Work under APCO	Works area of 3733	472772	Receipt acknowledged by EPD on 18 Oct 2021
	Registration as Chemical Waste Producer	Works area of 3733	474728	Receipt acknowledged by EPD on 9 Dec 2021
	Bill Account for disposal	Works area of 3733	7041945	Approval granted from EPD on 21 Oct 2021
	Construction Noise Permit (General Works)	Works area of 3733	GW-RS0395-23	Valid from 18 May 2023 to 15 Nov 2023
3801	Notification of Construction	Works area of 3801	488993	Receipt acknowledged by EPD on 2 Feb 2023
	Work under APCO	Stockpiling area of 3801	454269	Receipt acknowledged by EPD on 12 Mar 2020
			450940	Receipt acknowledged by EPD on 13 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under	Works area of 3801	WT00041429- 2022	Valid from 16 Aug 2022 to 31 Aug 2027
	WPCO	Stockpiling area of 3801	WT00037354- 2021	Valid from 8 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works area of 3801	GW-RS0863-23	Valid from 30 Sep 2023 to 27 Mar 2024
3802	Notification of Construction	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
_				

Contract No.	Description	Location	Permit/ Reference No.	Status
	Work under APCO			
	Registration as Chemical Waste	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
	Producer	Works area of 3802 (Existing airport)	WPN 5218-951- G2945-01	Completion of Registration on 29 Sep 2020
	Discharge License under	Works area of 3802	WT00037032- 2020	Valid from 25 May 2021 to 31 May 2026
	WPCO	Works area of 3802 (Existing	WT00039092- 2021	Valid from 30 Nov 2021 to 31 Nov 2026
		airport)	WT00043143- 2023	Valid from 17 Mar 2023 to 31 Mar 2028
			WT00041807- 2022	Valid from 3 Oct 2022 to 31 Oct 2027
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0760-23	Valid from 1 Sep 2023 to 3 Mar 2024
	(General Works)	Works area of 3802 (Existing airport)	GW-RS0432-23	Valid from 5 Jun 2023 to 4 Dec 2023
		Works area of 3802 (Ventilation building)	GW-RS0632-23	Valid from 31 Jul 2023 to 26 Jan 2024
3804	Notification of Construction Work under APCO	Works area of 3804	487452	Receipt acknowledged by EPD on 14 Dec 2022
	Construction Noise Permit (General Works)	Works area of 3804	GW-RS0629-23	Valid from 31 Jul 2023 to 27 Jan 2024
	Registration as Chemical Waste Producer	Works area of 3804	WPN 5213-951- B2686-01	Completion of Registration on 4 Jan 2023
	Bill Account for disposal	Works area of 3804	A/C 7046121	Approval granted from EPD on 3 Jan 2023
	Discharge License under WPCO	Works area of 3804	WT00044391- 2023	Valid from 17 Aug 2023 to 31 Aug 2028
3805	Notification of Construction Work under APCO	Works area of 3805	490065	Receipt acknowledged by EPD on 2 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3805	WPN 5218-951- C4788-01	Completion of Registration on 31 Mar 2023
	Bill Account for disposal	Works area of 3805	A/C 7046828	Approval granted from EPD on 10 Mar 2023
	Discharge License under WPCO	Works area of 3805	WT00043804- 2023	Valid from 15 Jun 2023 to 30 Jun 2028

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3805	GW-RS0750-23	Valid from 4 Sep 2023 to 3 Mar 2024
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/00004430 53	Approval granted on 11 Dec 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Landfill Disposal of Waste Concrete from Batching Plant	Works area of 3901A	EP195/01/18	Valid from 10 Nov 2023 to 9 Aug 2024
	Registration as Chemical Waste Producer	Works area of 3901A	WPN 5218-951- K3400-01	Completion of Registration on 17 Jul 2020
	Bill Account for disposal	Works area of 3901A	A/C 7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0620-23	Valid from 5 Aug 2023 to 4 Feb 2024
3901B	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/00004384 88	Approval granted on 26 Jun 2020
	Specified Process license under APCO	Works area of 3901B	L-3-262(1)	Valid from 17 Nov 2020 to 16 Nov 2024
	Registration as Chemical Waste Producer	Works area of 3901B	WPN 5218-951- G2880-01	Completion of Registration on 17 Jan 2020
	Bill Account for disposal	Works area of 3901B	A/C 7032417	Approval granted from EPD on 13 Nov 2018
	Construction Noise Permit (General Works)	Works area of 3901B	GW-RS0625-23	Valid from 5 Aug 2023 to 4 Feb 2024
3913	Specified Process license under APCO	Works area of 3913	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025
	Registration as Chemical Waste Producer	Works area of 3913	5213-951-S4405- 01	Completion of Registration on 22 Jul 2022, updated on 29 Mar 2023
	Bill Account for disposal	Works area of 3913	A/C 7044632	Approval granted from EPD on 18 Aug 2022

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3913	GW-RS0772-23	Valid from 20 Sep 2023 to 19 Mar 2024
132 kV Cable	Bill Account for disposal	Works area of 132 kV Cable	A/C 7039280	Approval granted from EPD on 8 Jan 2021

Appendix G. Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecutions

Statistics for Exceedances for 1-hour TSP, Noise, Water, Waste, CWD Monitoring

		Total no. recorded in the reporting period	Total no. recorded since the project commenced
1-hr TSP	Action	0	0
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Water	Action	0	0
	Limit	0	0
Waste	Action	0	1
	Limit	0	0
CWD	Action	0	0
	Limit	0	0

Remark: Exceedances, which are not project related, are not shown in this table.

Statistics for Complaints, Notifications of Summons and Prosecutions

Reporting Period	Cumulative Statistics				
	Complaints	Notifications of Summons	Prosecutions		
This reporting period	5	0	0		
From 28 December 2015 to end of the reporting period	64	2	2		

Appendix H. Data of SkyPier HSF Movements to/from Macau (between 1 and 31 October 2023)

Data of SkyPier HSF Movements to/from Macau (between 1 and 31 Oct 2023)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [YFT – Macao (Taipa)]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-Oct	11:58	8S912	YFT	Arrival	12.7	-	-
03-Oct	12:45	8S193	YFT	Departure	13	-	-
04-Oct	11:58	8S912	YFT	Arrival	12.1	-	-
04-Oct	12:46	8S193	YFT	Departure	12.7	-	-
06-Oct	12:00	8S912	YFT	Arrival	13.1	-	-
06-Oct	12:45	8S193	YFT	Departure	12.6	-	-
10-Oct	11:53	8S912	YFT	Arrival	13.3	-	-
10-Oct	12:44	8S193	YFT	Departure	12.9	-	-
11-Oct	11:59	8S912	YFT	Arrival	12.6	-	-
11-Oct	12:56	8S193	YFT	Departure	13.1	-	-
13-Oct	11:54	8S912	YFT	Arrival	13.4	-	-
13-Oct	12:53	8S193	YFT	Departure	13	-	-
17-Oct	11:59	8S912	YFT	Arrival	13.1	-	-
17-Oct	12:44	8S193	YFT	Departure	13.1	-	-
18-Oct	11:58	8S912	YFT	Arrival	12.1	-	-
18-Oct	13:03	8S193	YFT	Departure	11.9	-	-
20-Oct	11:56	8S912	YFT	Arrival	12.5	-	-
20-Oct	12:46	8S193	YFT	Departure	11.5	-	-
24-Oct	11:58	8S912	YFT	Arrival	12.1	-	-
24-Oct	12:51	8S193	YFT	Departure	12.8	-	-
25-Oct	12:05	8S912	YFT	Arrival	11.7	-	-
25-Oct	12:47	8S193	YFT	Departure	11.5	-	-
27-Oct	11:59	8S912	YFT	Arrival	12.6	-	-
27-Oct	12:49	8S193	YFT	Departure	12.2	-	-
31-Oct	11:54	8S912	YFT	Arrival	12.7	-	-
31-Oct	13:07	8S193	YFT	Departure	12.9	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in Oct 2023, no instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded.



mottmac.hk